SERVICE MANUAL

BA-6 CHASSIS

MODEL NAME	REMOTE COMMANDER	<u>DESTINATION</u>	CHASSIS NO.
KV-27FS320	RM-Y196	US	SCC-S61S-A
KV-27FS320	RM-Y196	CANADA	SCC-S59N-A
KV-32FS120	RM-Y195	US	SCC-S61P-A
KV-32FS120	RM-Y195	CANADA	SCC-S59K-A
KV-32FS320	RM-Y196	US	SCC-S61T-A
KV-32FS320	RM-Y196	CANADA	SCC-S59P-A
KV-34FS120	RM-Y195	LATIN NORTH	SCC-S73F-A
KV-34FS120	RM-Y195	LATIN SOUTH	SCC-S73G-A
KV-36FS120	RM-Y195	US	SCC-S61Q-A
KV-36FS120	RM-Y195	CANADA	SCC-S59L-A
KV-36FS120	RM-Y195	HAWAII	SCC-S74A-A
KV-36FS320	RM-Y196	US	SCC-S61R-A
KV-36FS320	RM-Y196	CANADA	SCC-S59M-A
KV-36FS320	RM-Y196	HAWAII	SCC-S74B-A
KV-38FS120	RM-Y195	LATIN NORTH	SCC-S73G-A

ORIGINAL MANUAL ISSUE DATE: 5/2004

:UPDATED ITEM

REVISION DATE	SUBJECT		
F/0004	Ale and delene and address one and Beathle Address Cons		
5/2004	No revisions or updates are applicable at this time.		
8/2004	Reissue entire manual, Added Wire Dressing for KV-27FS320/32FS320/36FS320		
	Added Service Data for KV-27FS320/36FS120/38FS120		
1/2005	Corrected PN for FBT Assy for KV-32FS320/36FS320 Models (Replace Pg. 105 with Pg. 105)		





SERVICE MANUAL

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MODEL NAME	REMOTE COMMANDER	DESTINATION	CHASSIS NO.
KV-27FS320	RM-Y196	US	SCC-S61S-A
KV-27FS320	RM-Y196	CANADA	SCC-S59N-A
KV-32FS120	RM-Y195	US	SCC-S61P-A
KV-32FS120	RM-Y195	CANADA	SCC-S59K-A
KV-32FS320	RM-Y196	US	SCC-S61T-A
KV-32FS320	RM-Y196	CANADA	SCC-S59P-A
KV-34FS120	RM-Y195	LATIN NORTH	SCC-S73F-A
KV-34FS120	RM-Y195	LATIN SOUTH	SCC-S73G-A
KV-36FS120	RM-Y195	US	SCC-S61Q-A
KV-36FS120	RM-Y195	CANADA	SCC-S59L-A
KV-36FS120	RM-Y195	HAWAII	SCC-S74A-A
KV-36FS320	RM-Y196	US	SCC-S61R-A
KV-36FS320	RM-Y196	CANADA	SCC-S59M-A
KV-36FS320	RM-Y196	HAWAII	SCC-S74B-A
KV-38FS120	RM-Y195	LATIN NORTH	SCC-S73G-A



KV-27FS320



TRINITRON® COLOR TELEVISION SOLY®

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SPECIFICATIONS

	KV-27FS320	KV-32FS120	KV-32FS320	KV-34FS120
Power Requirements	120V, 60Hz	120V, 60Hz	120V, 60Hz	120V-220V, 50/60Hz
Number of Inputs/Outputs			·	
Video ¹⁾	3	3	3	3
S Video ²⁾	1	1	1	1
Y,P _B , P _R ³⁾	2	1	2	1
Audio 4)	2	3	2	3
RF	1	1	1	1
Speaker Output (W)	10W x 2	10W x 2	10W x 2	10W x 2
Power Consumption (W)				
In Use (Max)	180W	175W	190W	175W (170W Chile, Peru, Bolivia)
In Standby (Max) 5)	1W	1W	1W	1W
Dimensions (W x H x D)				
mm		898 x 696 x 576 mm	898 x 682 x 584 mm	898 x 696 x 576 mm
in	$30^{7/8}$ x $23^{5/8}$ x $20^{1/2}$ in	35 ^{3/8} x 27 3/8 x 22 ^{5/8} in	35 ^{3/8} x 26 7/8 x 23 in	35 ^{3/8} x 27 3/8 x 22 ^{5/8} in
Mass				
kg	47.4 kg	75 kg	75.80 kg	75 kg
lbs	104 lbs 8 oz	165 lbs 6 oz	167 lbs 2 oz	165 lbs 6 oz

	KV-36FS120	KV-36FS320	KV-38FS120	
Power Requirements	120V, 60Hz	120V, 60Hz	120V-220V, 50/60Hz	
Number of Inputs/Outputs				
Video 1)	3	3	3	
S Video ²⁾	1	1	1	
Y,P _B , P _R ³⁾	1	2	1	
Audio ⁴⁾	3	2	3	
RF	1	1	1	
Speaker Output (W)	10W x 2	10W x 2	10W x 2	
Power Consumption (W)				
In Use (Max)	180W	190W	180W	
In Standby (Max) 5)	1W	1W	1W	
Dimensions (W x H x D)				
mm	985 x 774 x 633 mm	1020 x 760 x 640 mm	985 x 774 x 633 mm	
in	38 ^{3/4} x 30 1/2 x 24 ^{7/8} in	40 ^{1/8} x 29 7/8 x 25 ^{1/4} in	38 ^{3/4} x 30 1/2 x 24 ^{7/8} in	
Mass				
kg	98.4 kg	101.2 kg	98.4 kg	
lbs	lbs 216 lbs 15 oz		216 lbs 15 oz	

- 1) 1 Vp-p 75 ohms unbalanced, sync negative
- Y: 1 Vp-p 75 ohms unbalanced, sync negative
 C: 0.286 Vp-p (Burst signal), 75 ohms
- Y: 1.0 Vp-p, 75 ohms, sync negative; PB: 0.7 Vp-p, 75 ohms;
 PP Vo-p, 75 ohms
- 4) 500 mVrms (100% modulation), Impedance: 47 kilohms
- 5) This specification is the maximum wattage.

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() SRS (SOUND RETRIEVAL SYSTEM)

The (SRS (SOUND RETRIEVAL SYSTEM) is manufactured by Sony Corporation under license from SRS Labs, Inc. It is covered by U.S. Patent No. 4,748,669. Other U.S. and foreign patents pending.

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Design and specifications are subject to change without notice.

Television system

American TV standard, NTSC

Channel coverage

VHF: 2-13/ UHF: 14-69/ CATV: 1-125

Antenna

75-ohm external antenna terminal for VHF/UHF

Picture tube

FD Trinitron® tube

Visible screen size

27-inch picture measured diagonally (KV-27FS320 Only) 32-inch picture measured diagonally (KV-32FS120/32FS320/34FS120 Only) 36-inch picture measured diagonally (KV-36FS120/36FS320/38FS120 Only)

Actual screen size

29-inch measured diagonally (KV-27FS320 Only) 34-inch measured diagonally (KV-32FS120/32FS320/34FS120 Only) 38-inch measured diagonally (KV-36FS120/36FS320/38FS120 Only)

Supplied Accessories

Remote Commander RM-Y195 (All Except KV-27FS320/32FS320/36FS320) Remote Commander RM-Y196(KV-27FS320/32FS320/36FS320 Only) Two Size AA (R6) Batteries

Optional Accessories

TV Stand SU-27F2 (KV-27FS320 Only) SU-32F2 (KV-32FS120/32FS320/34FS120 Only) SU-36F2 (KV-36FS120/36FS320/38FS120 Only)

WARNINGS AND CAUTIONS

CAUTION

Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield, or carbon painted on the CRT, after removing the anode.

WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis. The chassis of this receiver is directly connected to the AC power line.



Components identified by shading and \triangle mark on the schematic diagrams, exploded views, and in the parts list are critical for safe operation. Replace these components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony. Circuit adjustments that are critical for safe operation are identified in this manual. Follow these procedures whenever critical components are replaced or improper operation is suspected.

ATTENTION!!

Apres avoir deconnecte le cap de l'anode, court-circuiter l'anode du tube cathodique et celui de l'anode du cap au chassis metallique de l'appareil, ou la couche de carbone peinte sur le tube cathodique ou au blindage du tube cathodique.

Afin d'eviter tout risque d'electrocution provenant d'un chássis sous tension, un transformateur d'isolement doit etre utilisé lors de tout dépannage. Le chássis de ce récepteur est directement raccordé à l'alimentation du secteur.



Les composants identifies par une trame et par une marque \triangle sur les schemas de principe, les vues explosees et les listes de pieces sont d'une importance critique pour la securite du fonctionnement. Ne les remplacer que par des composants Sony dont le numero de piece est indique dans le present manuel ou dans des supplements publies par Sony. Les reglages de circuit dont l'importance est critique pour la securite du fonctionnement sont identifies dans le present manuel. Suivre ces procedures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement suspecte.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or touching high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- 6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
- Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

Leakage Test

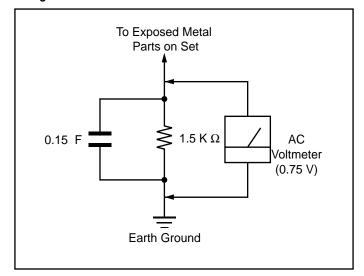


Figure A. Using an AC voltmeter to check AC leakage.

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instructions.
- A battery-operated AC milliampmeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson's 250 and Sanwa SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable (see Figure A).

How to Find a Good Earth Ground

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble- light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

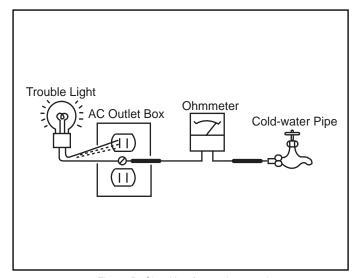


Figure B. Checking for earth ground.

SELF-DIAGNOSTIC FUNCTION



The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER LED will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER LED flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the Remote Commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

Diagnostic Test Indicators

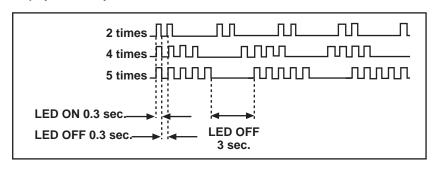
When an error occurs, the STANDBY/TIMER LED will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the LED will identify the first of the problem areas.

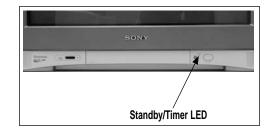
Results for all of the following diagnostic items are displayed on screen. No error has occurred if the screen displays a "0".

Diagnostic Item Description	No. of times STANDBY/ TIMER lamp flashes	Self-Diagnositc Display/ Diagnostic Result	Probable Cause Location	Detected Symptoms
Power does not turn on	Does not light		Power cord is not plugged in. Fuse is burned out (F601). (A Board)	Power does not come on.No power is supplied to the TV.AC Power supply is faulty.
+B overcurrent (OCP)*	2 times	2:0 or 2:1	H.OUT (Q502) is shorted. (A Board) IC702 is shorted. (C Board)	Power does not come on. Load on power line is shorted.
I-Prot	4 times	4:0 or 4:1	+13V is not supplied. (A Board) IC561 is faulty. (A Board)	 Has entered standby state after horizontal raster. Vertical deflection pulse is stopped. Power line is shorted or power supply is stopped.
IK (AKB)	5 times	5:0 or 5:1	IC001 is faulty. (M Board) Screen (G2) is improperly adjusted.**	No raster is generated. CRT Cathode current detection reference pulse output is small.

^{*}If a +B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously. The symptom that is diagnosed first by the mircrocontroller is displayed on the screen.

Display of Standby/Timer LED Flash Count





Diagnostic ItemFlash Count*+B Overcurrent2 timesI-Prot4 timesIK (AKB)5 times

*One flash count is not used for self-diagnostic.

Stopping the Standby/Timer LED Flash

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER LAMP from flashing.

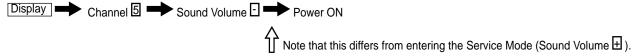
^{**}Refer to Screen (G2) Adjustments in Section 2-4. of this manual.

Self-Diagnostic Screen Display

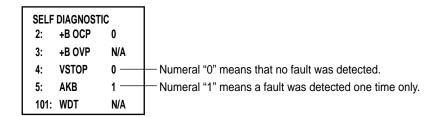
For errors with symptoms such as "power sometimes shuts off" or "screen sometimes goes out" that cannot be confirmed, it is possible to bring up past occurrences of failure on the screen for confirmation.

To Bring Up Screen Test

In standby mode, press buttons on the Remote Commander sequentially, in rapid succession, as shown below:



Self-Diagnostic Screen Display



Handling of Self-Diagnostic Screen Display

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to "0".

Unless the result display is cleared to "0", the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

Clearing the Result Display

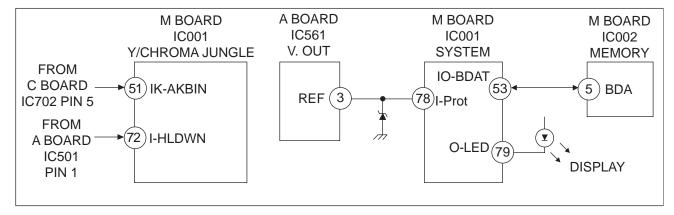
To clear the result display to "0", press buttons on the Remote Commander sequentially when the diagnostic screen is displayed, as shown below:



Quitting the Self-Diagnostic Screen

To quit the entire self-diagnostic screen, turn off the power switch on the Remote Commander or the main unit.

Self-Diagnostic Circuit



+B overcurrent (OCP)

Occurs when an overcurrent on the +B (135V) line is detected by pin 72 of IC001 (M Board). If the voltage of pin 72 of IC001 (M Board) is less than 1V when V.SYNC is more than seven verticals in a period, the unit will automatically turn off.

I-Prot

Occurs when an absence of the vertical deflection pulse is detected by pin 78 of IC001 (M Board). Power supply will shut down when waveform interval exceeds 2 seconds.

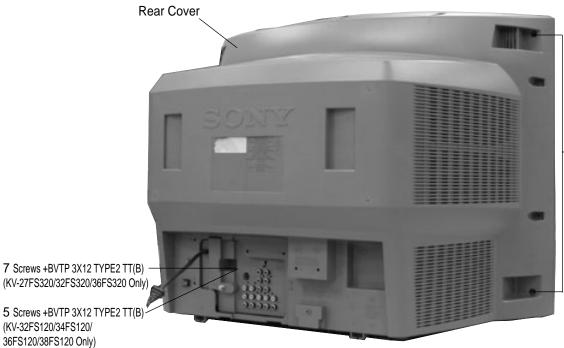
IK (AKB)

If the RGB levels* do not balance within 2 seconds after the power is turned on, this error will be detected by IC001 (M Board). TV will stay on, but there will be no picture.

*(Refers to the RGB levels of the AKB detection Ref pulse that detects 1K).

SECTION 1: DISASSEMBLY

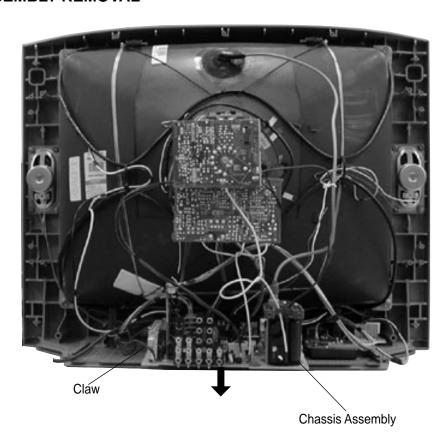
1-1. REAR COVER REMOVAL (KV-27FS320 PICTURED)



-12 Screws +BVTP 4X16 TYPE2 TT(B) (KV-27FS320/32FS320/36FS320 Only)

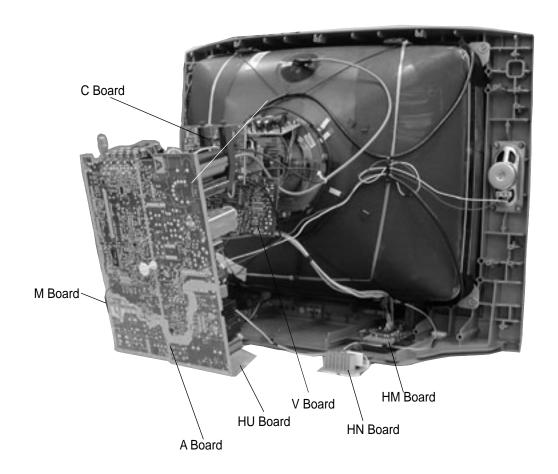
16 Screws +BVTP 4X16 TYPE2 TT(B) (KV-32FS120/34FS120/ 36FS120/38FS120 Only)

1-2. CHASSIS ASSEMBLY REMOVAL



1-3. SERVICE POSITION (KV-27FS320 PICTURED)

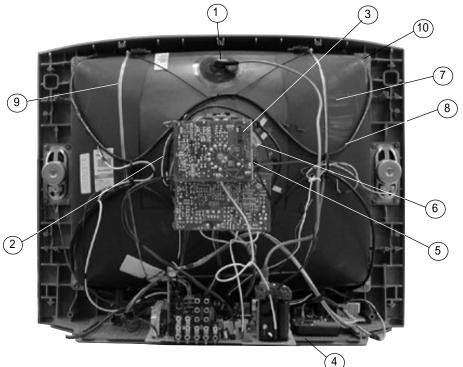
- 1 Press on catch tab to release A Board.
- 2 Disconnect cables as needed to allow A Board to be removed.

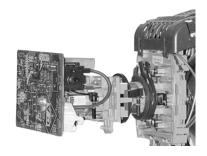


1-4. PICTURE TUBE REMOVAL

WARNING: BEFORE REMOVING THE ANODE CAP

High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT before attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.





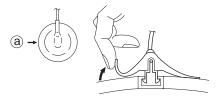
- 1. Discharge the anode of the CRT and remove the anode cap.
- 2. Unplug all interconnecting leads from the deflection yoke, neck assembly, degaussing coils and CRT grounding strap.
- 3. Remove the C Board from the CRT.
- 4. Remove the chassis assembly.
- 5. Loosen the neck assembly fixing screw and remove.
- 6. Loosen the deflection yoke fixing screw and remove.
- 7. Place the set with the CRT face down on a cushion and remove the degaussing coil holders.
- 8. Remove the degaussing coils.
- 9. Remove the CRT grounding strap and spring tension devices.
- 10. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT [Take care not to handle the CRT by the neck].

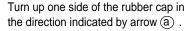
ANODE CAP REMOVAL PROCEDURE

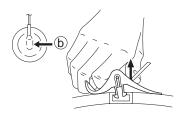
WARNING: High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT before attempting to remove the anode cap. Short between anode and coated earth ground strap of CRT.

NOTE: After removing the anode cap, short circuit the anode of the picture tube and the anode cap to either the metal chassis, CRT shield, or carbon painted on the CRT.

REMOVAL PROCEDURES







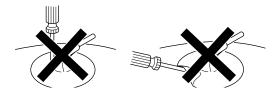
Use your thumb to pull the rubber cap firmly in the direction indicated by arrow (b).



When one side of the rubber cap separates from the anode button, the anode cap can be removed by turning the rubber cap and pulling it in the direction of arrow (c).

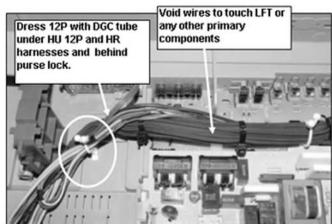
HOW TO HANDLE AN ANODE CAP

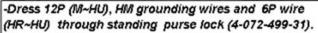
- 1. Do not use sharp objects which may cause damage to the surface of the anode
- 2. To avoid damaging the anode cap, do not squeeze the rubber covering too hard. A material fitting called a shatter-hook terminal is built into the rubber.
- 3. Do not force turn the foot of the rubber cover. This may cause the shatter-hook terminal to protrude and damage the rubber.

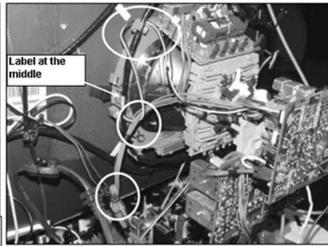


CABLE WIRE DRESSING

KV-27FS320 MODELS



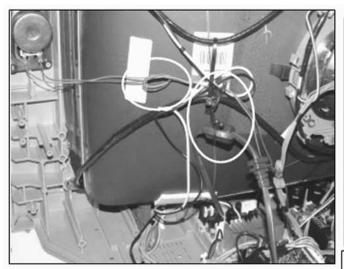




- Dress RGB harness over rotation coil lead wire.
 Dress Rotation coil lead wire on DY clip.
 - Dress RGB harness making a loop with a 9mm purse lock (3-703-982-02).

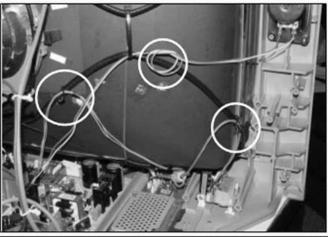
NOTE: Install Rotation coil with label at the middle point

Dress HM board grounding wires A board lightning wire, 12P video harness (M~HU board) and 12P (HM~M) together into standing purse lock (4-072-499-31),



Dress Right Speaker wire through DGC tie wrap ad make a knot.

Fix AC-Cord to DGC using a DGC purse lock (4-081-411-02), Install purse lock beside DCG tie wrap as shown in picture.

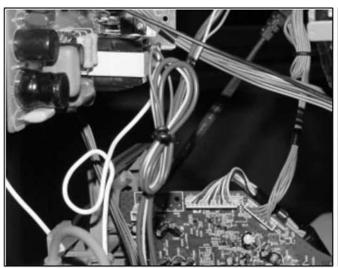


- Dress left speaker wire through DGC tie wrap and make a knot as shown in picture
- Fix 3P connector (A~HN) to DGC using a 9mm purse lock (3-703-982-02).
- Fix 3P shielded connector (HM~HN) to DGC as shown

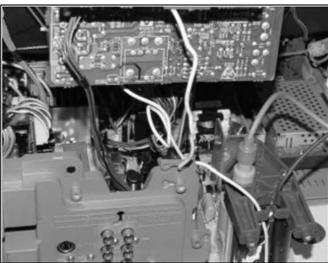
in picture.

NOTE Install ferrite clamp (1-500-082-11) 60mm from

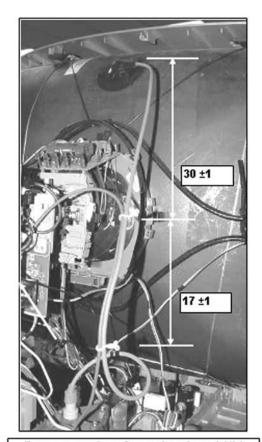




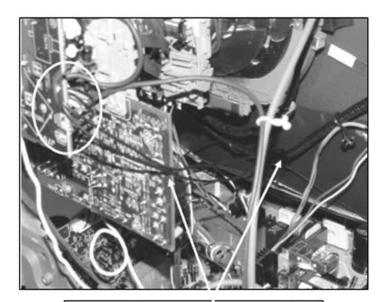
Dress DY's lead wire using a 9mm nurse lock (3-703-982-02)



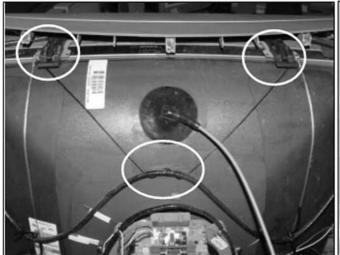
Dress G2 wire on rear bracket hook, twist DF wire.



Dress together focus lead and HV cable using (2) 5mm (3-703-981-02)

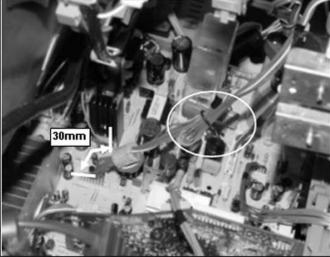


Dress CRT ground wires behind DGC and beside VD board



Fix DGC coils using (2) strain cables add 2 turns, hook cables on outer CRT hooks, Use 1 in uper coil and 1 in lower coil. Hook CRT ground wire (top) and springs(bottom) on outer hooks

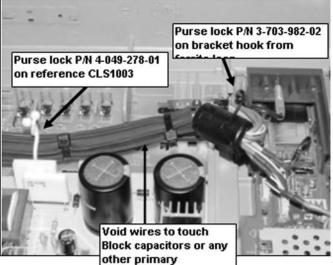


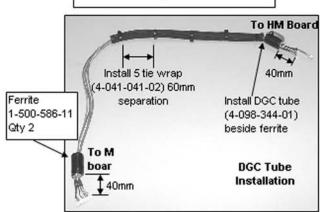


Dress VM harness (A~VD) maiking a loop with a 9mm purse lock (3-703-982-01).

Install Ferrite clamp (1-500-082-11) 30mm from connector housing.



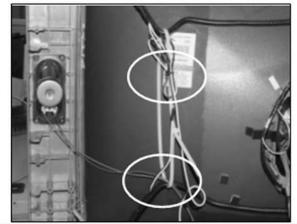




Dress 12P YUV connector (M~HM) with DGC tube and HM board grounding wires through standing purse lock (4-049-278-01). Install purse lock on HU board reference CLS1003 as shown in picture.

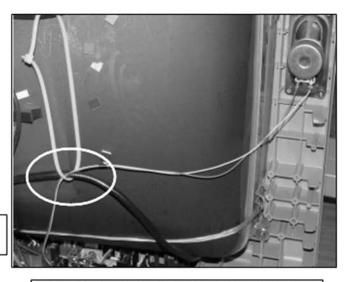
Fix 12P wire to bracket hook using a 9mm purse lock (3-703-982-02) from ferrite loop.

KV-32FS120/34FS120 MODELS

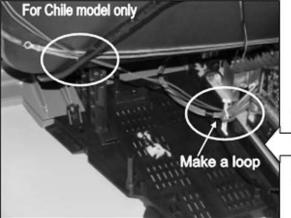


Dress right speaker wire through DGC's tie wrap.

Dress DGC lead wire with a 9mm purse lock



Dress left speaker wire through DGC's tie



For Chile model only

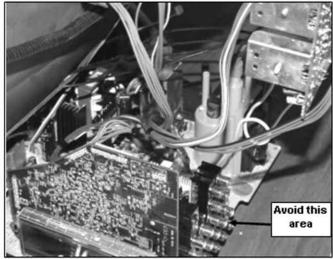
Dress right speaker wire through bottom board purse lock making a loop.

Dress wire behind DGC as shown in picture.

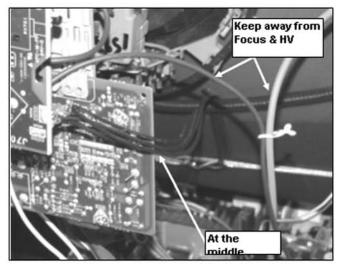


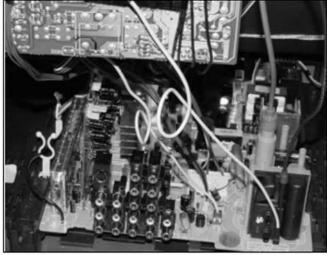
Dress RGB harness over Rotation coil lead wire.

Dress Rotation coil lead wire over DY clip and through rotation coil as shown in picture.



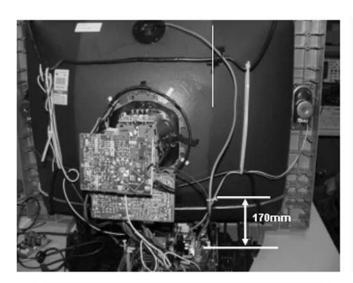
Dress VM and heaters harnesses over RGB to avoid interference with back cover installation.



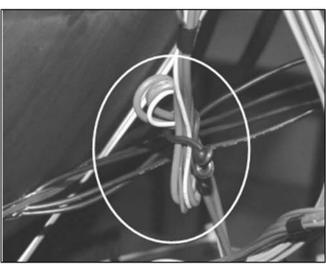


Dress CRT ground wires under DGC and beside VD board at the middle as picture shows, keep away from focus and HV lead wires.

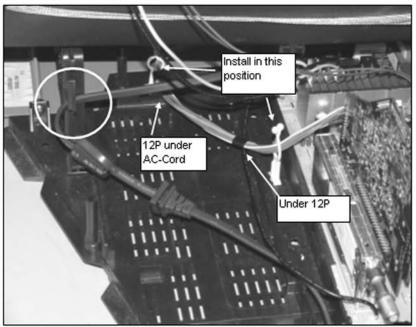
Dress G2 wire and DF wire as shown in picture.

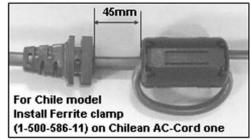


Dress HV cable and focus wire together using a 5mm purse lock (3-703-981-02). Install purse lock over carbon paint edge.



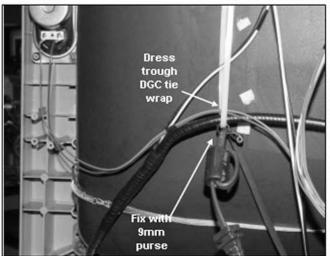
Dress DY lead wire with a 9mm purse lock (3-703-982-02)

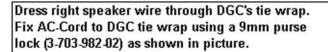




Dress AC-Cord into CRT support hook as shown in picture.
Dress 12P video harness through bottom board's purse locks and under AC-Cord. Unstall purse locks as shown in picture.
Dress lightning wire under 12P harness.

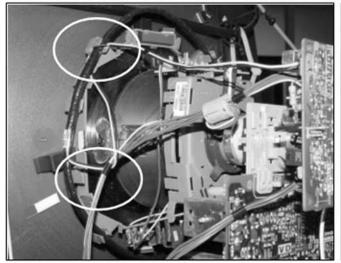
KV-32FS320 MODELS

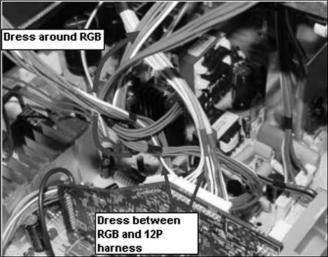






Dress left speaker wire through DGC's tie wrap.

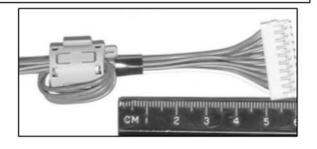


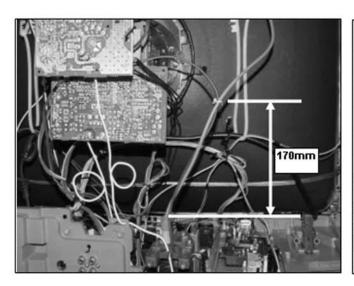


Dress RGB harness over Rotation coil lead wire.

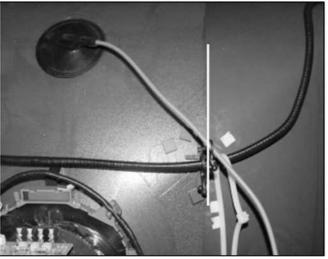
Dress Rotation coil lead wire over DY clip.

Dress VM and heaters harnesses RGB and 12P harness (HM), and behind RGB, (Refer to picture).





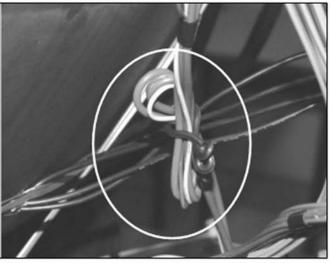
Dress HV and focus lead wire together using a 5 mm purse lock (3-703-981-02) as shown in picture.



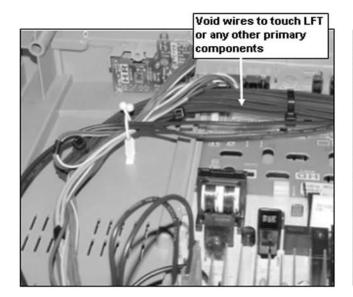
Install purse lock (4-081-411-02) using carbon paint as reference



Dress DGC lead wire using a 9mm purse lock (3-703-982-02).



Dress DY lead wire with a 9mm purse lock (3-703-982-02) .



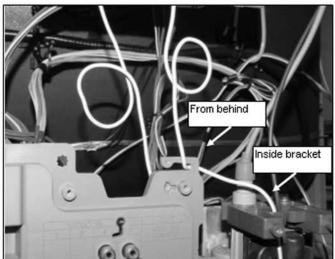
Dress HM board grounding wires, HR harness and HU 12P harness together into standing purse lock, dress 12P YUV harness (M-HM board) with DGC tube behind purse lock and under 6P HR and 12P HU harnesses.

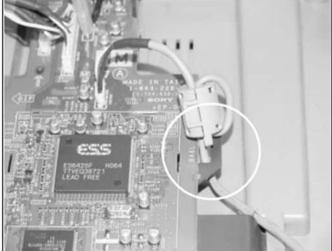
NOTE install purse lock (4-072-499-31) as in picture.



Dress HM board grounding wires, A board lightning wire, 12P video harness (M~HU board) and 12P (HM~M) together into standing purse lock.

NOTE install purse lock (4-072-499-31) as in picture



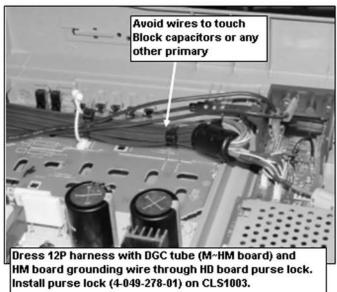


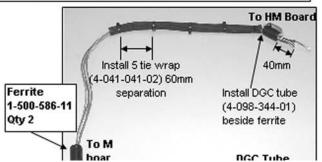
Dress G2 wire inside FBT bracket , behind A/V bracket hook (from behind) and make a loop.

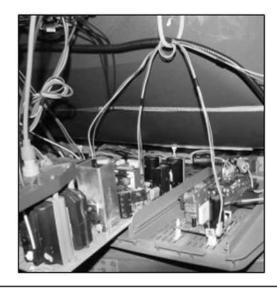
Dress DFT wire making a loop.

Dress 3P connector from HM~HN board through HM board bracket hook as in picture.

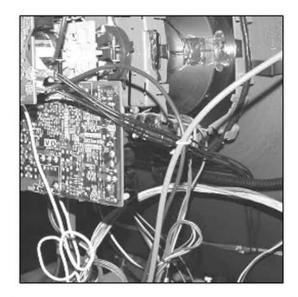




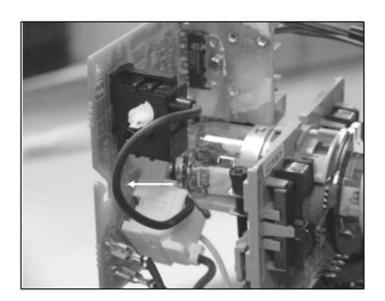




Dress 3P connector from A~HN board through DGC tie wrap making a loop.

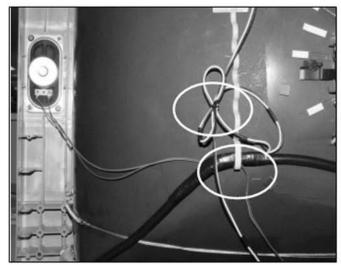


Dress CRT ground wires under DGC and beside VD board at the middle as picture shows, keep away from focus and HV lead wires.



Bend H-Stat wire towards C board.

KV-36FS120/38FS120 MODELS



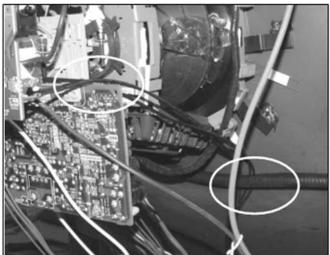
Dress right speaker wire through DGC band. Dress DGC lead wire with a 9mm purse lock

Dress left speaker wire through DGC band

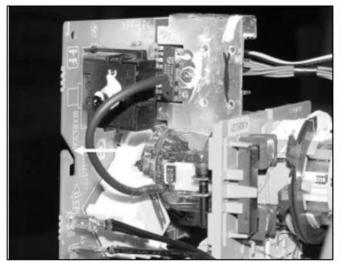


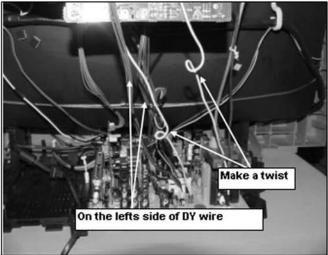
Dress RGB harness over Rotation coil lead wire.

Dress Rotation coil lead wire over DY clip and through rotation coil as shown in picture.



Dress earth ground wires under DGC and over VD board.



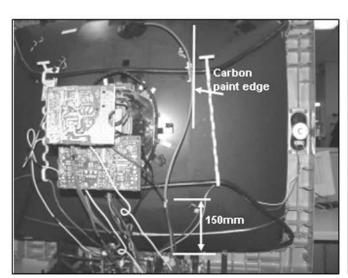


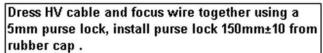
Bend H-Stat wire towards C board.

Dress G2 wire and DF wire as shown in picture.

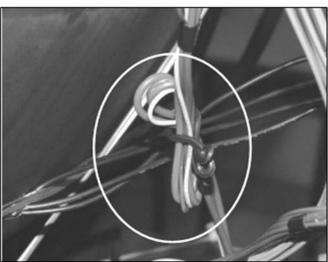
Dress heaters and VM harnesses on the left side

of DY lead wire

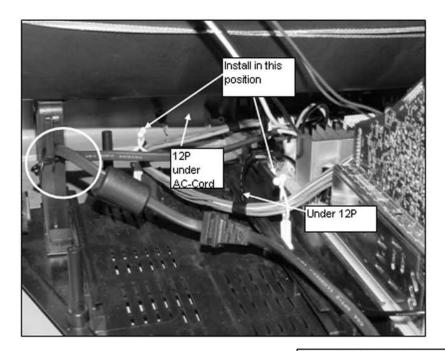




Dress HV through standing holder, install holder on CRT's carbon paint edge



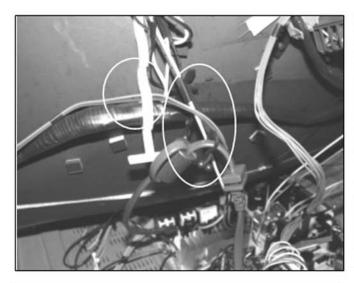
Dress DY lead wire with a 9mm purse lock (3-703-982-02)

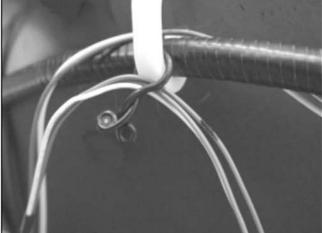


Dress AC-Cord into CRT support hook using a 9mm purse lock as shown in picture.

Dress 12P video harness through bottom board's purse locks and under AC-Cord. Install purse locks as shown in picture. Dress lightning wire under 12P harness.

KV-36FS320 MODELS



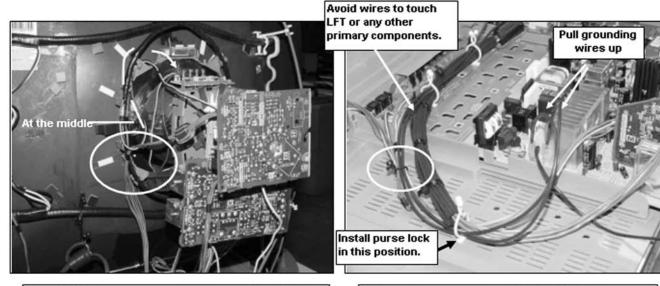


Dress right speaker wire through DGC band.

Fix AC-Cord to DGC using a DGC purse lock (4-081-411-02) as shown in picture, use carbon paint as reference.

Dress left speaker wire through DGC band.

Using a 9mm purse lock (3-703-982-02) fix 3P connector (A~HN) to DGC band.

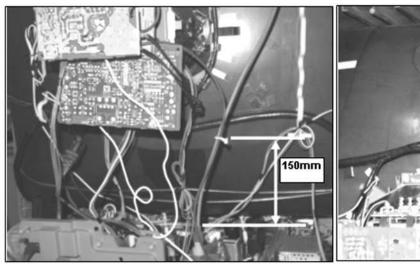


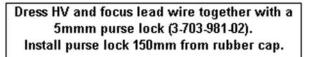
Dress RGB harness over Rotation coil lead wire. Dress Rotation coil lead wire over DY clip.

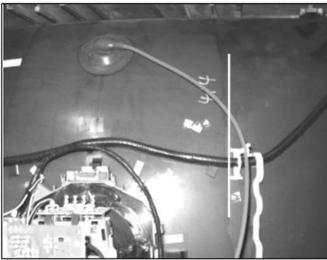
NOTE: Install Rotation coil with label at the middle point.

Using a 9mm purse lock (3-703-982-02) dress 12P harness (M~HU), A~HM board grounding wires and HR board harness.

On standing purse lock (4-049-278-01) dress12P harness (M~HM), 12P harness (M~HU),A~A board lightning wire and A~HM board grounding wires.



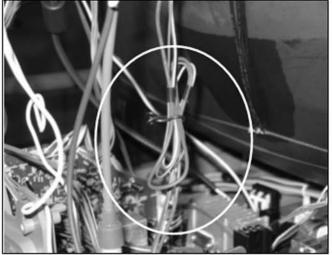




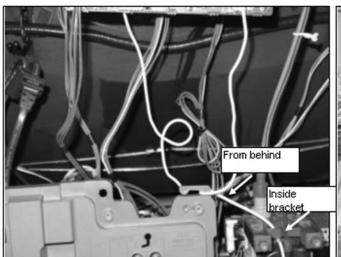
Install holder (4-089-469-11) using carbon paint as reference



Fix DGC lead wire to DGC band using a 9mm purse lock (3-703-982-02)



Dress DY lead wire with a 9mm purse lock (3-703-982-02)



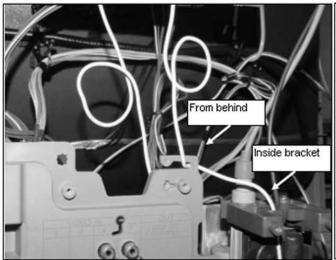
Dress G2 wire inside FBT bracket, on A/V bracket hook (from behind) and make a loop.

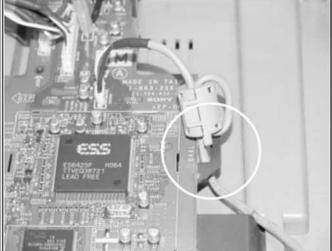
Dress DFT wire making a loop.



On HU purse locks CLS1006 and CLS1007 (4-049-278-01 x 2) dress12P harness (M~HM) and A~HM board grounding wires.

NOTE dress grounding wires over 12P harness.

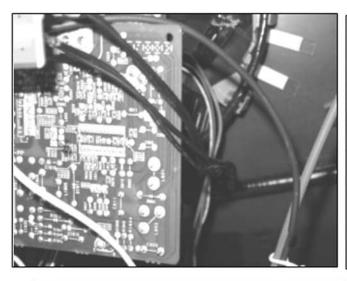




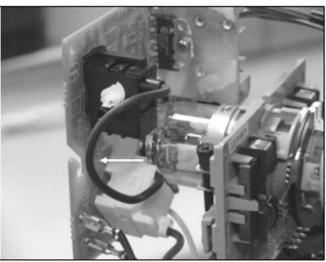
Dress G2 wire inside FBT bracket, behind A/V bracket hook (from behind) and make a loop. Dress DFT wire making a loop.

Dress 3P connector from HM~HN board through hook as in picture. Install ferrite 60mm from housing





Dress CRT ground wires under DGC and beside VD board at the middle as picture shows, keep away from focus and HV lead wires.



Bend H-Stat wire towards C board.

SECTION 2: SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

These adjustments should be performed with rated power supply voltage unless otherwise noted.

Set the controls as follows unless otherwise noted:

VIDEO MODE: Pro

PICTURE CONTROL: Normal BRIGHTNESS CONTROL: Normal

Perform the adjustments in order as follows:

- Beam Landing
- Convergence
- 3. Focus
- 4. Screen (G2)
- 5. White Balance

Note Test Equipment Required:

- 1. Color Bar Pattern Generator
- Degausser
- 3. DC Power Supply
- 4. Digital Multimeter

2-1. BEAM LANDING

Before beginning adjustment procedure:

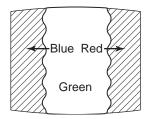
1. Feed in the white pattern signal.

ADJUSTMENT PROCEDURE

- 1. Input a raster signal with the pattern generator.
- Loosen the deflection yoke mounting screw, and set the purity control to the center as shown below:

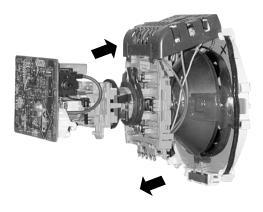


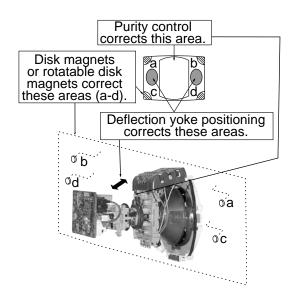
- 3. Turn the raster signal of the pattern generator to green.
- Move the deflection yoke backward, and adjust with the purity control so that green is in the center and red and blue are even on both sides.



5. Move the deflection yoke forward, and adjust so that the entire screen becomes green.

- Switch over the raster signal to red and blue and confirm the condition.
- When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.
- 8. If landing at the corner is not right, adjust by using the disk magnets.





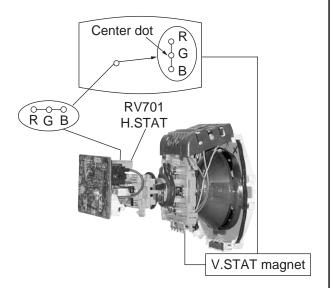
2-2. CONVERGENCE

Before starting convergence adjustments:

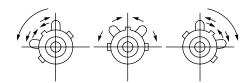
- 1 Perform FOCUS, VLIN and VSIZE adjustments.
- 2. Set BRIGHTNESS control to minimum.
- 3. Feed in dot pattern.

VERTICAL STATIC CONVERGENCE

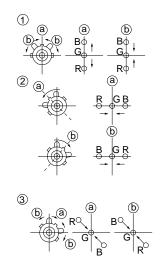
 Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen.



2. Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.



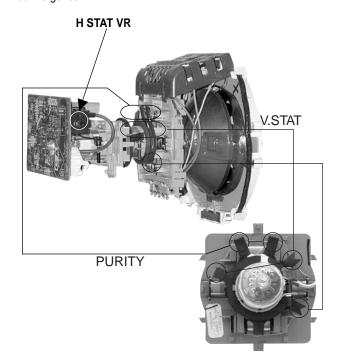
When the V. STAT magnet is moved in the direction of arrow a and b, red, green, and blue dots move as shown below:



HORIZONTAL STATIC CONVERGENCE

If the blue dot does not converge with the red and green dots, perform the following:

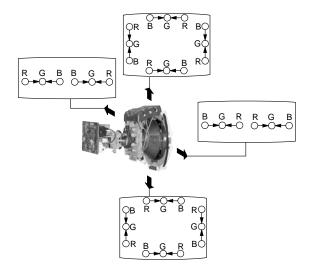
1. Move H STAT VR magnet (a) to correct insufficient H.Static convergence.



DYNAMIC CONVERGENCE ADJUSTMENT

Before performing this adjustment, perform Horizontal and Vertical Static Convergence Adjustment.

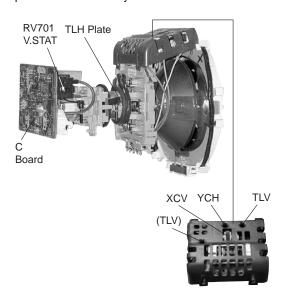
- 1. Slightly loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.
- Move the deflection yoke for best convergence as shown below:

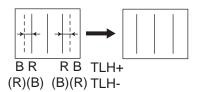


- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.

TLH PLATE ADJUSTMENT

- 1. Input crosshatch pattern.
- 2. Adjust PICTURE QUALITY to standard, PICTURE and BRIGHTNESS to 50%, and OTHER to standard.
- 3 Adjust the Horizontal Convergence of red and blue dots by tilting the TLH plate on the deflection yoke.

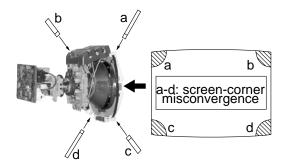




- 4. Adjust XCV core to balance X axis.
- 5. Adjust YCH VR to balance Y axis.
- Adjust vertical red and blue convergence with V.TILT (TLV VR.) Note: Perform adjustment 3-6 while tracking items 1 and 2.

SCREEN-CORNER CONVERGENCE

1. Affix a permalloy assembly corresponding to the misconverged areas:



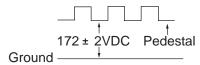
2-3. FOCUS

1. Adjust FOCUS control for best pictures.



2-4. SCREEN (G2)

- 1. Input a dot pattern.
- Set the PICTURE and BRIGHTNESS controls at minimum and COLOR control at normal.
- Adjust SBRT, GCUT, BCUT in service mode with an oscilloscope as shown below so that voltages on the red, green, and blue cathodes are 172 ± 2VDC.



4. Observe the screen and adjust SCREEN (G2) VR in FBT to obtain the faintly visible background of dot signal.

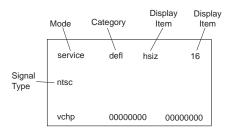
2-5. METHOD OF SETTING THE SERVICE ADJUSTMENT MODE

SERVICE MODE PROCEDURE

- 1. Standby mode (power off).
- 2. Press Display Channel 5 Sound Volume Power on the Remote Commander (press each button within a second).

SERVICE ADJUSTMENT MODE ON

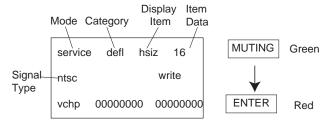
1. The CRT displays the time being adjusted.



- 2. Press 1 or 4 on the Remote Commander to select the time.
- 3. Press 3 or 6 on the Remote Commander to change the data.
- 4. Press MUTING then ENTER to save into the memory.

SERVICE ADJUSTMENT MODE MEMORY

Turn the set off then on to exit Service Adjustment Mode.



2-6. WHITE BALANCE ADJUSTMENTS

- 1. Input an entire white signal with burst.
- 2. Set to Service Adjustment Mode.
- 3. Set the PICTURE and BRIGHTNESS to minimum.
- 4. Adjust with SBRT if necessary.
- 5. Select GCUT and BCUT with $1 \ and 4 \ .$
- 6. Adjust with 3 and 6 for the best white balance.
- 7. Set the PICTURE and BRIGHTNESS to maximum.
- 8. Select GDRV and BDRV with 11 and 14.
- 9. Adjust with 3 and 6 for the best white balance.
- 10. Press MUTING then ENTER to save into the memory.

SECTION 3: SAFETY RELATED ADJUSTMENTS

3-1. R530, R531 CONFIRMATION METHOD (HV HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components which are marked with \square on the schematic diagram:

Part Replaced (☑)	Adjustment (█)
C531, C532, D519, D520, D521, IC501, IC600, PH602, R529, R530, R531, R532, R533, R550, T503 (FBT), T504 (DFT)	HV HOLD-DOWN R530, R531

PREPARATION BEFORE CONFIRMATION

- 1. Using a Variac, apply AC input voltage: 120 +/- 2.0 VAC.
- 2. Turn the POWER switch ON.
- Input a white signal and set the PICTURE and BRIGHT controls to maximum.
- 4. Confirm that the voltage of more than 23.0 VDC appears between TP85 and ground on the A Board.

HOLD-DOWN OPERATION CONFIRMATION

- 1. Connect the current meter between Pin 11 of the FBT (T503) and the PWB land where Pin 11 would normally attach. (See Figure 1).
- 2. Input a dot signal and set PICTURE and BRIGHTNESS to minimum: $IABL = 2175 + 100/-325 \mu A$.
- 3. Confirm the voltage of A Board TP91 is 134.6 ± 1.0 VDC.
- 4. Connect the digital voltmeter and the DC power supply to TP85 and ground. (See Figure 1).
- 5. Increase the DC power voltage gradually until the picture blanks out.
- 6. Turn DC power source off immediately.
- Read the digital voltmeter indication:
 KV-27FS320 Only (standard = 24.78 + 0.0/ 0.1 VDC).
 All except KV-27FS320 (standard = 27.24 + 0.0/ 0.1 VDC).
- 8. Input a white signal and set PICTURE and BRIGHTNESS to maximum: IABL = $2175 + 100/-325 \mu A$.
- 9. Repeat steps 4 to 7.

HOLD-DOWN READJUSTMENT

If the setting indicated in Step 2 of Hold-Down Operation Confirmation cannot be met, readjustment should be performed by altering the resistance value of R530, R531 component marked with

■.

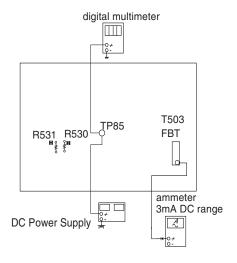
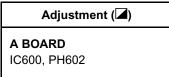


Figure 1

3-2. B+ VOLTAGE CONFIRMATION AND ADJUSTMENT

Always perform the following adjustments when replacing the following components, which are marked with \square on the schematic diagram on the A Board:



- 1. Using a Variac, apply AC input voltage: 130 + 2.0/-0.0 VAC
- 2. Input a monoscope signal.
- 3. Set the PICTURE control and the BRIGHT control to minimum.
- Confirm the voltage on A Board between TP23 and ground is less than 136.5 VDC.
- 5. If step 4 is not satisfied, replace R530 and R531 on A Board and repeat the above steps.

SECTION 4: CIRCUIT ADJUSTMENTS

ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER

Use the Remote Commander (RM-Y195, RM-Y196) to perform the circuit adjustments in this section. **Test Equipment Required:** 1. Pattern generator 2. Frequency counter 3. Digital multimeter 4. Audio oscillator

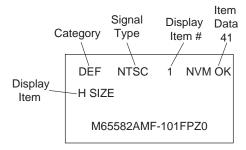
4-1. SETTING THE SERVICE ADJUSTMENT MODE

- 1. Standby mode (Power off).
- Press the following buttons on the remote commander within a second of each other:



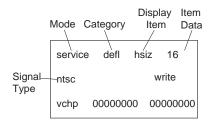
SERVICE ADJUSTMENT MODE ON

1. The CRT displays the item being adjusted.

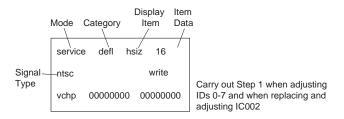


- 2. Press 1 or 4 on the Remote Commander to select the item.
- 3. Press 3 or 6 on the Remote Commander to change the data.
- 4. Press MUTING then ENTER to write into memory.

SERVICE ADJUSTMENT MODE MEMORY



1. Press then ENTER on the Remote Commander to initialize.

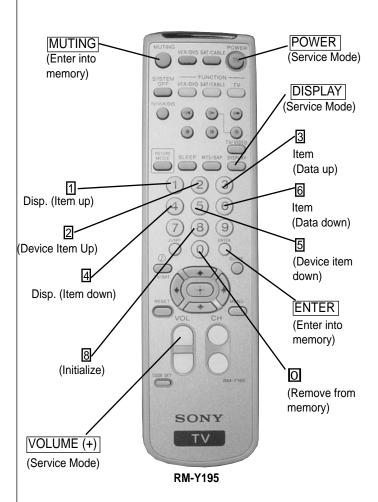


- 2. Press MUTING then ENTER to write into memory.
- 3. Turn set off then on to exit Service Adjustment Mode.

4-2. MEMORY WRITE CONFIRMATION METHOD

- 1. After adjustment, pull out the plug from the AC outlet, then replace the plug in the AC outlet again.
- 2. Turn the power switch ON and set to Service Mode.
- 3. Call the adjusted items again to confirm they were adjusted.

4-3. REMOTE ADJUSTMENT BUTTONS AND INDICATORS



4-4. SERVICE DATA LISTS **KV-27FS320 SERVICE DATA**

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
VERSION	Fix	0	VER	Microprocessor version information	=

Service					Common	RF	Composite V
	Fix/ Var	No.	Name	Description	Init	Init	Init
Group					Data	Data	Data
lı.	Var	1	HSIZ	H SIZE(EW DC)	51	45	45
DEF	Var	2	HPOS	H POSITION	25	25	25
	Var	3	VSIZ	V RAMP SIZE	37	35	35
	Var	4	VPOS	V POSITION(RAMP DC)	30	32	31
	Var	5	VLIN	V LINEARITY	32		
	Var	6	SCOR	S CORRECTION	56		
	Var	7	VBOW	BOW	39		
	Var	8	VANG	ANGLE	22		
	Var	9	TRAP	EW TRAPESIUM	24		
	Var	10	PAMP	EW PIN	33		
	Var	11	UPIN	UPPER PIN	29		
	Var	12	LPIN	LOWER PIN	30		
	Var	13	TROT	TROT	128		
	Var	14	HBLK	H BLK mode select	0		
	Fix	15	RBLK	HBLK rear timing	21	24	23
	Var	16	LBLK	HBLK front timing	53	52	54
	Fix	17	VBLK	V BLK width	3		
	Fix	18	HMSK	TOP VEND (when MACROVISION) prevent OFF	0		
	Fix	19	HDW	H PULSE WIDTH(25u/19u)	1		
	Fix	20	AFC	AFC GAIN	0		
	Fix	21	AFC1	AFC1 TIME CONSTANT	0	7	0
	Fix	22	AFCW	AFC1 PULL IN WIDE	1		
	Fix	23	CDMD	V DET WINDOW SW TIMING	1		
	Fix	24	HSS	SYNC SLICE LEVEL(H sepa)	0		
	Fix	25	VSS	SYNC SLICE LEVEL(V sepa)	3		
	Fix	26	SLUD	Auto Slice level UP/DOWN	0		
	Fix 27 JPSW Jump SW		0				
	Fix	28	HOSC	H VCO fo offset ADJUST OFFSET	3		
	Fix	29	EHT	EHT	4		
	Fix	30	EHTG	EHT MODE	1		

⁼ Means same as other register* Means change when TV is turned on

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
თ	Fix	1	VSIZ	V RAMP SIZE	40
16 :	Fix	2	VPOS	V POSITION(RAMP DC)	34
-	Fix	3	VLIN	V LINEARITY	26
	Fix	4	SCOR	S CORRECTION	28
	Fix	5	TRAP	EW TRAPESIUM	23
	Fix	6	PAMP	EW PIN	15
	Fix	7	UPIN	UPPER PIN	31
	Fix	8	LPIN	LOWER PIN	32
	Fix	9	ABLG	ABL GAIN	1
	Fix	10	SCON	SUB CONTRAST LEVEL	11
	Fix	11	VPW	Jump Pulse Width	1

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	RF Init Data	Composite V Init Data	YUV Init Data	Memory Stick Init Data
_	Fix	1	RDRV	R DRIVE	84				
VP1	Var	2	GDRV	G DRIVE when Color Temp. is "Cool" and "Neutral"	65			66	66
	Var	3	BDRV	B DRIVE when Color Temp. is "Cool" and "Neutral"	76			76	76
	Var	4	RCUT	Hardware AKB(R) CMP DATA	100				
	Var	5	GCUT	Hardware AKB(G) CMP DATA when Color Temp. is "Cool" and "Neutral"	72			73	73
	Var	6	BCUT	Hardware AKB(B) CMP DATA when Color Temp. is "Cool" and "Neutral"	58			59	59
	Var	7	SCON	SUB CONTRAST LEVEL	11				0
	Var	8	SHUE	SUB TINT(HUE)		10	8	7	7
	Var	9	SCOL	SUB COLÒR LÉVEL		8	9	26	26
	Var	10	SBRT	SUB BRIGHTNESS	17			22	21

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	RF Init Data	Composite V Init Data	YUV Init Data	Memory Stick Init Data
2	Fix	11	RON	R OUTPUT ON (0:R Output OFF 1:R Output ON)	1				
VP1	GOUTPUT ON GOUTPUT		G OUTPUT ON (0:G Output OFF 1:G Output ON)	1					
	Fix 13 BON BOUTI		B OUTPUT ON (0:B Output OFF 1:B Output ON)	1					
	Fix	14	BLLV	BLUE STRETCH(00:no <-> 11:deep) only Color Temp "Cool"	1				
	Fix	15	MTRX	MATRIX RATIO SELECT	1				
	Fix	16	AXIS	R-Y PHASE OFFSET	52				
	Fix	17	SSHO	SUB SHARPNESS GAIN(OVER) RF/VIDEO		3	5	5	3
	Fix	18	SSHP	SUB SHARPNESS GAIN(PRE) RF/VIDEO		11	15	16	13
	Fix	19	SHPF	SHRPNESS fo(00:2 CLK <-> 11:5 CLK)		0	1	0	0
	Fix Fix	20 21	SHCL SHMX	SHARPNESS CORING LEVEL SHARPNESS LIMITTER LEVEL	1 15				
	Fix	22	AKBD	AKB Self Diagnostic Counter(@1sec)	5				
	Fix	23	AKBS	AKB Switch (0 : AKB OFF 1 : H/W AKB ON)	1				
	Fix	24	REFP	AKB REFPLS timing ("0"Fix when 16:9On)	0				
	Fix	25	YNRC	YNR LIMITER LEVEL	15				
	Fix	26	BKON	BLACK STRETCH ON	1				
	Fix	27	BKRC	BLACK STRETCH DETECTOR TIME CONSTANT1	=				
	Fix	28	BKDP	BLACK STRETCH START POINT	=				
	Fix	29	BKSP	BLACK STRETCH POINT	=				

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	RF Init Data	Composite V Init Data	YUV Init Data	Memory Stick Init Data
7	Fix	1	VMOF	VM LEVEL at "Off" Setting	2	Data	Data	Data	Data
VP2	Fix	2	VMLO	VM LEVEL at "Low" Setting	5				
	Fix	3	VMHI	VM LEVEL at "High" Setting	11				
	Fix	4	VMDL	VM DELAY		10	10	6	6
	Fix	5	VMPL	VM PORALITY	1				
	Fix	6	VMWD	VM WIDTH	0				
	Fix	7	VMCL	VM CORING LEVEL	0				
	Fix	8		VM LIMITER LEVEL	15				
	Fix	9	CKLV	COLOR KILLER VTH	1				
	Fix	10	CKON	FORCE KILLER	0				
	Fix	11		ADAPTIVE DET SENSITIVITY YC SEPA FORCE	2				
	Fix	12	YCMD	SELECT(00:ADAPTIVE 01:H 10:V 11:HV)	0				
	Fix	13	VACL	V APERTURE CORING LEVEL	0				
	Fix	14	VAGA	V APERTURE GAIN LEVEL	=				
	Fix	15	VAMX	V APERTURE LIMITER LEVEL	15				
	Fix	16	GAMM	GAMMA(00:no <>11:deep)	=				
	Fix	17	YDLY	Y DELAY TIME	3				
	Fix	18	CDLY	C DELAY	2				
	Fix	19	YOFF	Y OUTPUT MUTE	0				
	Fix	20	BGPP	BGP(for C DECODER)TIMING	11				
	Fix	21	NRCH	NOISE DET VTH1	3				
	Fix	22	NRCL	NOISE DET VTH1	255				
	Fix	23	NRVL	NOISE DET VTH1	255				
	Fix	24	NRVH	NOISE DET VTH1	255				
	Fix	25	GDOF	G DRIVE OFFSET only Color Temp. "Warm"	18				
	Fix	26	BDOF	B DRIVE OFFSET only Color Temp. "Warm"	31				
	Fix	27	GCOF	GCUT CMP DATA OFFSET only Color Temp. "Warm"	2				
	Fix 28 BCOF		BCOF	BCUT CMP DATA OFFSET only Color Temp. "Warm"	4				
	Fix	29	DCTV	DCTRANSFER VTH	3				
	Fix	30	DCTG	DCTRANSFER GAIN	=				

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
	Var	1	SCOL	SUB COLOR LEVEL for NR	8
Z Z	Fix	2	SHCL	SHARPNESS NOISE CORING LEVEL for NR	15
	Fix	3	SHMX	SHARPNESS LIMITTER LEVEL for NR	7
	Fix	4	YNRC	YNR LIMITER LEVEL for NR	7
	Fix	5	VMHI	VM LEVEL at "High" Setting for NR	7
	Fix	6	VMCL	VM CORING LEVEL for NR	0
	Fix	7	VMMX	VM LIMITER LEVEL for NR	7
	Fix	8	VAGA	V APERTURE GAIN LEVEL for NR	0
	Fix	9	GAMM	GAMMA(00:no <>11:deep) for NR	0
	Fix	10	YNRS	YNR ON for NR	1
	Fix	11	WSTH	WEAK_SIGNAL VTH for NR	7
	Fix	12	WSVA	WEAK SIGNAL VIDEO ATT for NR	0
	Fix	13	WSCA	WEAK SIGNAL CHROMA ATT for NR	5

Service Group	Fix/ Var	No.	Name	Description	VIVID Init Data	STANDARD Init Data	MOVIE Init Data	PRO Init Data
Ш	Fix	1	VPIC	Picture	63	50	37	31
I ⊢	Fix	2	VBRI	Brightness	31	31	28	31
PALET	Fix	3	VCOL	Color	32	31	31	31
	Fix	4	VHUE	Hue	31	31	31	31
ш.	Fix	5	VSHA	Sharpness	35	37	34	31
	Fix	6	VVM	VM	2	1	1	0
	Fix	7	VTRI	Color Temp	0	1	2	1
	Fix	8	VAPA	Aperture G	7	4	3	0
	Fix	9	VGMA	Gamma	3	2	2	0
	Fix	10	VDCT	DCT LV	12	9	9	2
	Fix	11	BKDP	BLACK STRETCH DEPTH	2	2	1	1
	Fix	12	BKRC	BLACK ST TIME 1 & TIME 2	243	243	244	244
	Fix	13	BKSP	BLACK STRETCH POINT	3	1	1	1
	Fix	14	CONO	CONTRAST OFFSET for RF	0	0	0	0

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	16:9 Init Data	YUV Init Data	Memory Stick Init Data
	Fix	1	YNRS	YNR ON	0			
ASIC	Fix	2	CLPS	CLAMP CONTROL SW (0:CLAMP OFF 1:CLAMP AUTO 2:CLAMP ON)	1			
	Fix	3	VMG2	MODULATOR FEEDBACK GAIN CONTROL	1			
	Fix	4	CLPT	CLAMP AUTO ON KEEP TIMER COUNT (@100ms)	15			
	Fix	5	AASL	C DECODER TIME CONSTANT(32,16,8,1H)	2			
	Fix	6	BASL	ACC TIME CONSTANT	0			
	Fix	7	ACTH	ROM HYS	95			
	Fix	8	AVAV	AVE SEL AV	3			
	Fix	9	B2TH	B2COMP	0			
	Fix	10	AMUT	RGB POWER ON MUTE	0			
	Fix	11	PMUT	RGB MUTE(EXCEPT OSD)	1			
	Fix	12	CORL	R CUTOFF lower	0			
	Fix	13	CORH	R CUTOFF upper	1			
	Fix	14	COGL	G CUTOFF lower when Color Temp. is "Cool" and "Neutral"	0			
	Fix	15	COGH	G CUTOFF upper when Color Temp. is "Cool" and "Neutral"	1			
	Fix	16	COBL	B CUTOFF lower when Color Temp. is "Cool" and "Neutral"	0			
	Fix	17	СОВН	B CUTOFF upper when Color Temp. is "Cool" and "Neutral"	1			
	Fix	18	ALSP	ACL SPEED	0			
	Fix	19	ALAS	ACL ATACK SPEED	146			
	Fix	20	ABLG	ABL GAIN	4			
	Fix	21	AKBM	AKB MODE	0			
	Fix	22	AKBP	AKB PULSE HEIGHT	10			
	Fix	23	OSDL	OSD LIMMIT SELECT	0			
	Fix	24	UVG	UV OFFSET CANCELER ON	0			
	Var	25	UOFS	U IN OFFSET	32		32	32
	Var	26	VOFS	V IN OFFSET	32		31	31
	Fix	27	AALG	ANALOG ACL GAIN CONTROL	0			
	Fix	28	AALS	ANALOG ACL ON/OFF CONTROL	1			
	Fix	29	UVDT	UVIN DITHER TEST	14			

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	16:9 Init Data	YUV Init Data	Memory Stick Init Data
	Fix	30	HFFR	AFC1 FORCE FREERUN	0			
ASIC	Fix	31	HFUP	H FREERUN FREQUENCY UP(700Hz)	0			
	Fix	32	JSWW	Jump Pulse Width	0			
	Fix	33	XF0A	VCXO FREERUN ADJUST	0			
	Fix	34	BGST	BGP(for PLL) TIMING	16		6	6
	Fix	35	XPHA	VCXO PHASE ADJUST	10			
	Fix	36	HRMP	AFC2 TIME CONSTANT	3			
	Fix	37	RPLU	REF PLL TIME CONSTANT	3			
	Fix	38	RPLB	REF PLL TIME CONSTANT	1			
	Fix	39	XF0B	VCXO Fo ADJUST	0			
	Fix	40	RPLS	REF VCO FB LOOP SELECT	0			
	Fix	41	SSM	SyncSepaMasking CONTROL	0			
	Fix	42	VSAG	V-SAG prevent ON	0			
	Fix	43	AFC2	AFC2 GAIN CONTROL	0			
	Fix	44	VRFL	V RAMP FILTER SWITCHING OFF	0			
	Fix	45	XPLU	ACP TIME CONSTANT	1			
	Fix	46	CDM2	V_LOGIC SW	1			
	Fix	47	BGPC	BGP C	0			
	Fix	48	MHDL	BGP SEL	1			
	Fix	49	BFRE	force V FREERUN	0			
	Fix	50	HRPP	FRAMP RRAMP H OUT CONTROL RANGE	2			
	Fix	51	DSCK	DS DAC CLK SW for only Not YUV	0	0		
	Fix	52	VBHK	V BLK HALF KILL only 16:90ff	0			
	Fix	53	VPW	V Pulse Wide	1			
	Fix	54	DTH	DITHER THRESHOLD LEVEL CONTROL at IIC AUTOD=ON	1			
	Fix	55	SLON	LPF SYNC ON	5		5	5
	Fix	56	VSSW	SYNC SLICE LEVEL(V) Wide Window	0			
	Fix	57	AF2S	AFC2 timing SW	0			
	Fix	58	VSL2	Digital V_SYNC_LPF(fall)	1			
	Fix	59	VSL1	Digital V_SYNC_LPF(rise)	Ö			
	Fix 60 VSHE V-SHRINK MODE for AV-NoSync		0					
	Fix	61	DSCS	CLOCK DIV SEL	1		0	0
	Fix	62	14HI	4fsc(Skew)CLK POLARITY	0			
	Fix	63	14HD	4fscCLK(Skew)CLK DELAY ADJUST	1			

Service Group	Fix/ Var	No.	Name	Description	Common Init	16:9 Init	YUV Init	Memory Stick Init
		0.4	501	or our poly a pitty	Data	Data	Data	Data
೨	Fix	64	DSI	8fscCLK POLARITY	1			
ASIC	Fix	65	DSD	8fscCLK DELAY ADJUST	0			
	Fix	66	ADCD	ADC CLK DELAY ADJUST	1			
	Fix	67		WEAK_SIGNAL VTH	0			
	Fix	68		WEAK SIGNAL VIDEO ATT	0			
	Fix	69		WEAK SIGNAL CHROMA ATT	0			
	Fix	70		AD REFERNCE SELECT(VZ)	0			
	Fix	71		AD REFERNCE SELECT(VZ)	0		12	12
	Fix	72	HT	HALF TONE LEVEL	0			
	Fix	73	OSLR	R OSD LEVEL	27			
	Fix	74	OSLG	G OSD LEVEL	27			
	Fix	75	OSDC	OSD COMP	0			
	Fix	76	OSLB	B OSD LEVEL	27			
	Var	77	HRIL	H/W AKB RED OUTPUT Lower	*			
	Var	78	HRIH	H/W AKB RED OUTPUT Upper	*			
	Var	79	HGIL	H/W AKB GREEN OUTPUT Lower	*			
	Var	80	HGIH	H/W AKB GREEN OUTPUT Upper	*			
	Var	81	HBIL	H/W AKB BLUE OUTPUT Lower	*			
	Var	82	HBIH	H/W AKB BLUE OUTPUT Upper	*			
	Fix	83	HLM1	H/W AKB LIM1	4			
	Fix	84	HLM2	H/W AKB LIM2	12			
	Fix	85	HLM3	H/W AKB LIM3	21			
	Fix	86	HAD1	H/W AKB SPEED1	2			
	Fix	87	HAD2	H/W AKB SPEED2	6			
	Fix	88	HAKE	H/W AKB MANUAL (MCU)/HARD	1			
	Fix	89	HASP	H/W AKB SPEED	3			
	Fix	90	HERL	H/W AKB ERROR DET THRESH	10			
	Fix	91	HLMC	H/W AKB ERROR DET TIME	15			
	Fix	92	HPWL	H/W AKB POWER ON TRESH	4			
	Fix	93	HPWC	H/W AKB POWER ON TIME	2			
				POWER ON H/W AKB2 HOLD				
	Fix	94	HFMT	TIMER(@100msec) [0 : No Hold]	20			
	Fix	95	SPMT	AKB POWER ON MUTE EXIT TIMER(@100msec)	120			
	Fix	96	GYG	G-Y Gain	0			
	Fix	97	Y16M	YUV 16 M	1			
	Fix		PCLP	Pedestal Clamp	0			

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
<u> </u>	Fix	1	SBAL	Sub Balance	4
AUDIO	Fix	2	SBAS	Sub Bass	0
¥	Fix	3	STRE	Sub Treble	0
	Fix	4	SRL	Surround Level	0
	Fix	5	BBOL	Surround Off-BBE Low	3
	Fix		BBOH	Surround Off-BBE High	3
	Fix	7	BBSL	Simulate BBE Low	3
	Fix	8	BBSH	Simulate BBE High	3
	Fix	9	BBGL	WOW Game BBE Low	5
	Fix	10	BBGH	WOW Game BBE High	5
	Fix	11	BBTL	SRS BBE Low	0
	Fix	12	BBTH	SRS BBE High	0
	Fix	13	VFIX	Audio output fix data	240
	Fix	14	AGCL	AGC level	2
	Fix	15	VCOF	VCOF	9

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
	Var	1	DISP	OSD horizontal offset	93
l Ř	Fix	2	CCHP	for TILT data calculation	110
MICRO	Fix	3	HRLW	Low limit of H-pulse counting window (RF)	16
	Fix	4	HRHG	High limit of H-pulse counting wondow (RF)	64
	Fix	5	HSDT	H-pulse Detection(S-Video)	8
	Fix	6	STPI	Gradual CONTRAST Increase Starting level	40
	Fix		RAPI	Gradual CONTRAST Increase Vsync counter	10
	Fix	8	ZCRD	Zero Cross Relay Delay	20
		9	ABLT	ABL protection counter	3

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
MS	FIX	1	VERS	M.S. Software Version	=

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
VERSION	Fix	0	VER	Microprocessor version information	=

Means same as other registerMeans change when TV is turned

Service Group	Fix/ Var	No.	Name	Description	Common Init	RF Init	Composite V Init
					Data	Data	Data
14.	Var	1	HSIZ	H SIZE(EW DC)	44	43	43
DEF	Var	2	HPOS	H POSITION	24	27	28
	Var	3	VSIZ	V RAMP SIZE	29	27	27
	Var	4	VPOS	V POSITION(RAMP DC)	33	35	34
	Var	5	VLIN	V LINEARITY	37		
	Var	6	SCOR	S CORRECTION	45		
	Var	7	VBOW	BOW	36		
	Var	8	VANG	ANGLE	52		
	Var	9	TRAP	EW TRAPESIUM	22		
	Var	10	PAMP	EW PIN	31		
	Var	11	UPIN	UPPER PIN	30		
	Var	12	LPIN	LOWER PIN	31		
	Var	13	TROT	TROT	128		
	Var	14		H BLK mode select	0		
	Fix	15		HBLK rear timing	23	25	25
	Var	16	LBLK	HBLK front timing	56	53	53
	Fix	17	VBLK	V BLK width	3		
	Fix	18	HMSK	TOP VEND(when MACROVISION)prevent OFF	0		
	Fix	19	HDW	H PULSE WIDTH(25u/19u)	1		
	Fix	20	AFC	AFC GAIN	0		
	Fix	21	AFC1	AFC1 TIME CONSTANT	0	7	0
	Fix	22	AFCW	AFC1 PULL IN WIDE	1		
	Fix	23	CDMD	V DET WINDOW SW TIMING	1		
	Fix	24	HSS	SYNC SLICE LEVEL(H sepa)	0		
	Fix	25	VSS	SYNC SLICE LEVEL(V sepa)	3		
	Fix	26	SLUD	Auto Slice level UP/DOWN	0		
	Fix	27	JPSW	Jump SW	0		
	Fix	28	HOSC	H VCO fo offset ADJUST OFFSET	3		
	Fix	29	EHT	EHT	4		
	Fix	30	EHTG	EHT MODE	1		

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
6		1	VSIZ	V RAMP SIZE	35
. 16		2	VPOS	V POSITION(RAMP DC)	39
_		3	VLIN	V LINEARITY	30
		4	SCOR	S CORRECTION	14
		5	TRAP	EW TRAPESIUM	19
		6	PAMP	EW PIN	14
		7	UPIN	UPPER PIN	31
		8	LPIN	LOWER PIN	32
		9	ABLG	ABL GAIN	1
		10	SCON	SUB CONTRAST LEVEL	11
		11	VPW	Jump Pulse Width	1

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	RF Init Data	Composite V Init Data	YUV Init Data	Memory Stick Init Data
		1	RDRV	R DRIVE	84				
VP1		2	GDRV	G DRIVE when Color Temp. is "Cool" and "Neutral"	69			68	47
		3	BDRV	B DRIVE when Color Temp. is "Cool" and "Neutral"	69			67	62
		4	RCUT	Hardware AKB(R) CMP DATA	100				
		5	GCUT	Hardware AKB(G) CMP DATA when Color Temp. is "Cool" and "Neutral"	73			72	67
		6	BCUT	Hardware AKB(B) CMP DATA when Color Temp. is "Cool" and "Neutral"	64			58	49
		7	SCON	SUB CONTRAST LEVEL	11				23
		8	SHUE	SUB TINT(HUE)		9	7	8	10
		9	SCOL	SUB COLÒR LÉVEL		9 7	9	26	16
		10	SBRT	SUB BRIGHTNESS	15			22	16

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	RF Init Data	Composite V Init Data	YUV Init Data	Memory Stick Init Data
2		11	RON	R OUTPUT ON (0:R Output OFF 1:R Output ON)	1				
VP1		12	GON	G OUTPUT ON (0:G Output OFF 1:G Output ON)	1				
		13	BON	B OUTPUT ON (0:B Output OFF 1:B Output ON)	1				
		14	BLLV	BLUE STRETCH(00:no <-> 11:deep) only Color Temp "Cool"	1				
		15	MTRX	MATRIX RATIO SELECT	1				
		16	AXIS	R-Y PHASE OFFSET	52				
		17	SSHO	SUB SHARPNESS GAIN(OVER) RF/VIDEO		3	2	2	12
		18	SSHP	SUB SHARPNESS GAIN(PRE) RF/VIDEO		11	11	13	18
		19	SHPF	SHRPNESS fo(00:2 CLK <-> 11:5 CLK)		0	1	0	1
		20	SHCL	SHARPNESS CORING LEVEL	1				
		21	SHMX	SHARPNESS LIMITTER LEVEL	15				
		22	AKBD	AKB Self Diagnostic Counter(@1sec)	5				
		23	AKBS	AKB Switch (0 : AKB OFF 1 : H/W AKB ON)	1				
		24	REFP	AKB REFPLS timing ("0"Fix when 16:9On)	0				
		25	YNRC	YNR LIMITER LEVEL	15				
		26	BKON	BLACK STRETCH ON	1				
		27	BKRC	BLACK STRETCH DETECTOR TIME CONSTANT1	=				
		28	BKDP	BLACK STRETCH START POINT	=				
		29	BKSP	BLACK STRETCH POINT	=				

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	RF Init Data	Composite V Init Data	YUV Init Data	Memory Stick Init Data
O.		1	VMOF	VM LEVEL at "Off" Setting	2				
VP2		2	VMLO	VM LEVEL at "Low" Setting	5				
		3	VMHI	VM LEVEL at "High" Setting	11				
		4	VMDL	VM DELAY		10	10	6	6
		5	VMPL	VM PORALITY	1				
		6	VMWD	VM WIDTH	0				
		7	VMCL	VM CORING LEVEL	0				
		8	VMMX	VM LIMITER LEVEL	15				
		9	CKLV	COLOR KILLER VTH	1				
		10	CKON	FORCE KILLER	0				
		11	ALFA	ADAPTIVE DET SENSITIVITY YC SEPA FORCE	2				
		12	YCMD	SELECT(00:ADAPTIVE 01:H 10:V 11:HV)	0				
		13	VACL	V APERTURE CORING LEVEL	0				
		14	VAGA	V APERTURE GAIN LEVEL	=				
		15	VAMX	V APERTURE LIMITER LEVEL	15				
		16	GAMM	GAMMA(00:no <>11:deep)	=				
		17	YDLY	Y DELAY TIME	3				
		18	CDLY	C DELAY	2				
		19	YOFF	Y OUTPUT MUTE	0				
		20	BGPP	BGP(for C DECODER)TIMING	11				
		21	NRCH	NOISE DET VTH1	3				
		22	NRCL	NOISE DET VTH1	255				
		23	NRVL	NOISE DET VTH1	255				
		24	NRVH	NOISE DET VTH1	255				
		25	GDOF	G DRIVE OFFSET only Color Temp. "Warm"	18				
		26	BDOF	B DRIVE OFFSET only Color Temp. "Warm"	31				
		27	GCOF	GCUT CMP DATA OFFSET only Color Temp. "Warm"	2				
		28	BCOF	BCUT CMP DATA OFFSET only Color Temp. "Warm"	4				
		29	DCTV	DCTRANSFER VTH	3				
		30	DCTG	DCTRANSFER GAIN	=				

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
		1	SCOL	SUB COLOR LEVEL for NR	7
Z Z	<u>Y</u> 2		SHCL	SHARPNESS NOISE CORING LEVEL for NR	15
			SHMX	SHARPNESS LIMITTER LEVEL for NR	7
		4	YNRC	YNR LIMITER LEVEL for NR	7
		5	VMHI	VM LEVEL at "High" Setting for NR	7
		6	VMCL	VM CORING LEVEL for NR	0
		7	VMMX	VM LIMITER LEVEL for NR	7
		8	VAGA	V APERTURE GAIN LEVEL for NR	0
		9	GAMM	GAMMA(00:no <>11:deep) for NR	0
		10	YNRS	YNR ON for NR	1
	11		WSTH	WEAK_SIGNAL VTH for NR	7
	12		WSVA	WEAK SIGNAL VIDEO ATT for NR	0
		13	WSCA	WEAK SIGNAL CHROMA ATT for NR	5

Service Group	Fix/ Var	No.	Name	Description	VIVID Init Data	STANDARD Init Data	MOVIE Init Data	PRO Init Data
111	Fix	1	VPIC	Picture	63	50	37	31
E	Fix	2	VBRI	Brightness	31	31	28	31
[4	Fix	3	VCOL	Color	32	31	31	31
PALET	Fix	4	VHUE	Hue	31	31	31	31
"	Fix	5	VSHA	Sharpness	35	37	34	31
	Fix	6	VVM	VM	2	1	1	0
	Fix	7	VTRI	Color Temp	0	1	2	1
	Fix	8	VAPA	Aperture G	7	4	3	0
	Fix	9	VGMA	Gamma	3	2	2	0
	Fix	10	VDCT	DCT LV	12	9	9	2
	Fix	11	BKDP	BLACK STRETCH DEPTH	2	2	1	1
	Fix	12	BKRC	BLACK ST TIME 1 & TIME 2	243	243	244	244
	Fix	13	BKSP	BLACK STRETCH POINT	3	1	1	1
	Fix	14	CONO	CONTRAST OFFSET for RF	1	0	0	0

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	16:9 Init Data	YUV Init Data	Memory Stick Init Data
	Fix	1	YNRS	YNR ON	0	Dutu	Dutu	Dutu
ASIC	Fix	2	CLPS	CLAMP CONTROL SW (0:CLAMP OFF 1:CLAMP AUTO 2:CLAMP ON)	1			
		3	VMG2	MODULATOR FEEDBACK GAIN CONTROL	1			
		4	CLPT	CLAMP AUTO ON KEEP TIMER COUNT (@100ms)	15			
		5	AASL	C DECODER TIME CONSTANT(32,16,8,1H)	2			
		6	BASL	ACC TIME CONSTANT	0			
		7	ACTH	ROM HYS	95			
		8	AVAV	AVE SEL AV	3			
		9	B2TH	B2COMP	0			
		10		RGB POWER ON MUTE	0			
		11		RGB MUTE(EXCEPT OSD)	1			
		12		R CUTOFF lower	0			
		13	CORH	R CUTOFF upper	1			
		14	COGL	G CUTOFF lower when Color Temp. is "Cool" and "Neutral"	0			
		15	COGH	G CUTOFF upper when Color Temp. is "Cool" and "Neutral"	1			
		16	COBL	B CUTOFF lower when Color Temp. is "Cool" and "Neutral"	0			
		17	СОВН	B CUTOFF upper when Color Temp. is "Cool" and "Neutral"	1			
		18	ALSP	ACL SPEED	0			
		19	ALAS	ACL ATACK SPEED	146			
		20	ABLG	ABL GAIN	4			
		21	AKBM	AKB MODE	0			
		22	AKBP	AKB PULSE HEIGHT	10			
		23	OSDL	OSD LIMMIT SELECT	0			
		24	UVG	UV OFFSET CANCELER ON	0			
		25	UOFS	U IN OFFSET	32		39	32
		26	VOFS	V IN OFFSET	32		35	32
		27	AALG	ANALOG ACL GAIN CONTROL	0			
		28	AALS	ANALOG ACL ON/OFF CONTROL	1			
		29	UVDT	UVIN DITHER TEST	14			

Service	Fix/				Common	16:9	YUV	Memory Stick
Group	Var	No.	Name	Description	Init	Init	Init	Init
Огоар	Vai				Data	Data	Data	Data
		30	HFFR	AFC1 FORCE FREERUN	0			
O		31	HFUP	H FREERUN FREQUENCY	0			
ASIC				UP(700Hz)				
		32		Jump Pulse Width	0			
		33		VCXO FREERUN ADJUST	0		_	
		34		BGP(for PLL) TIMING	16		6	16
		35		VCXO PHASE ADJUST	10			
		36		AFC2 TIME CONSTANT	3			
		37		REF PLL TIME CONSTANT	3			
		38		REF PLL TIME CONSTANT	1			
		39		VCXO Fo ADJUST	0			
		40		REF VCO FB LOOP SELECT	0			
		41	SSM	SyncSepaMasking CONTROL	0			
		42		V-SAG prevent ON	0			
		43	AFC2	AFC2 GAIN CONTROL	0			
		44	VRFL	V RAMP FILTER SWITCHING OFF	0			
		45	XPLU	ACP TIME CONSTANT	1			
		46	CDM2	V_LOGIC SW	1			
		47	BGPC	BGP C	0			
		48	MHDL	BGP SEL	1			
		49	BFRE	force V FREERUN	0			
		50	HRPP	FRAMP RRAMP H OUT CONTROL	2			
				RANGE		_		
		51		DS DAC CLK SW for only Not YUV	0	0		
		52		V BLK HALF KILL only 16:90ff	0			
		53	VPW	V Pulse Wide	1			
		54	DTH	DITHER THRESHOLD LEVEL CONTROL at IIC AUTOD=ON	1			
		55	SLON	LPF SYNC ON	5		5	5
		56	VSSW	SYNC SLICE LEVEL(V) Wide Window	0			
		57	AF2S	AFC2 timing SW	0			
		58	VSL2	Digital V_SYNC_LPF(fall)	1			
		59	VSL1	Digital V_SYNC_LPF(rise)	0			
		60	VSHE	V-SHRINK MODE for AV-NoSync	0			
		61	DSCS	CLOCK DIV SEL	1		0	0
		62	14HI	4fsc(Skew)CLK POLARITY	1			
		63	14HD	4fscCLK(Skew)CLK DELAY ADJUST	0			

Service	Fix/				Common	16:9	RF	Composite V
Group	Var	No.	Name	Description	Init	Init	Init	Init
Group	Vai				Data	Data	Data	Data
O		64	DSI	8fscCLK POLARITY	1			
ASIC		65	DSD	8fscCLK DELAY ADJUST	0			
∢		66	ADCD	ADC CLK DELAY ADJUST	0			
		67	WSTH	WEAK_SIGNAL VTH	0			
		68	WSVA	WEAK SIGNAL VIDEO ATT	0			
		69	WSCA	WEAK SIGNAL CHROMA ATT	0			
		70	VREF	AD REFERNCE SELECT(VZ)	0			
		71	DCCK	AD REFERNCE SELECT(VZ)	0		12	12
		72	HT	HALF TONE LEVEL	0			
		73	OSLR	R OSD LEVEL	27			
		74	OSLG	G OSD LEVEL	27			
		75	OSDC	OSD COMP	0			
		76	OSLB	B OSD LEVEL	27			
		77	HRIL	H/W AKB RED OUTPUT Lower	4			
		78	HRIH	H/W AKB RED OUTPUT Upper	1			
		79	HGIL	H/W AKB GREEN OUTPUT Lower	15			
		80	HGIH	H/W AKB GREEN OUTPUT Upper	1			
		81	HBIL	H/W AKB BLUE OUTPUT Lower	231			
		82	HBIH	H/W AKB BLUE OUTPUT Upper	0			
		83	HLM1	H/W AKB LIM1	4			
		84	HLM2	H/W AKB LIM2	12			
		85	HLM3	H/W AKB LIM3	21			
		86	HAD1	H/W AKB SPEED1	2			
		87	HAD2	H/W AKB SPEED2	6			
		88	HAKE	H/W AKB MANUAL (MCU)/HARD	1			
		89	HASP	H/W AKB SPEED	3			
		90	HERL	H/W AKB ERROR DET THRESH	10			
		91	HLMC	H/W AKB ERROR DET TIME	15			
		92	HPWL	H/W AKB POWER ON TRESH	4			
		93	HPWC	H/W AKB POWER ON TIME	2			
		04		POWER ON H/W AKB2 HOLD	00			
		94	HFMT	TIMER(@100msec) [0 : No Hold]	20			
		0.5	0014	AKB POWER ON MUTE EXIT	400			
		95	SPMT	TIMER(@100msec)	120			
		96	GYG	G-Y Gain	0			
		97	Y16M	YUV 16 M	1			
		98	PCLP	Pedestal Clamp	0			

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
	Fix	1	SBAL	Sub Balance	4
l 🖁	Fix	2	SBAS	Sub Bass	0
AUDIO	Fix	3	STRE	Sub Treble	0
_ ~	Fix 4 SRL Surround Level		Surround Level	0	
	Fix 5 BBOL Surround Off-BBE Low		Surround Off-BBE Low	3	
	Fix	6	BBOH	Surround Off-BBE High	3
	Fix	7	BBSL	Simulate BBE Low	3
	Fix	8	BBSH	Simulate BBE High	3
	Fix	9	BBGL	WOW Game BBE Low	0
	Fix	10	BBGH	WOW Game BBE High	0
	Fix	11	BBTL	SRS BBE Low	3
	Fix 12 BBTH SRS BBE High		SRS BBE High	3	
	Fix 13 VFIX Audio output fix data		Audio output fix data	240	
	Fix 14 AGCL AGC level		AGC level	2	
	Fix	15	VCOF	VCOF	9

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
	Var	1	DISP	OSD horizontal offset	101
) <u>%</u>	Fix	2	CCHP	for TILT data calculation	110
MICRO	Fix	3	HRLW	Low limit of H-pulse counting window (RF)	16
	Fix	4	HRHG	High limit of H-pulse counting wondow (RF)	64
	Fix	5	HSDT	H-pulse Detection(S-Video)	8
	Fix	6	STPI	Gradual CONTRAST Increase Starting level	40
	Fix	7	RAPI	Gradual CONTRAST Increase Vsync counter	10
	Fix	8	ZCRD	Zero Cross Relay Delay	20
		9	ABLT	ABL protection counter	3

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
MS	FIX	1	VERS	M.S. Software Version	=

	Service Group	Fix/ Var	No.	Name	Description	Common Init Data
Ī	VERSION	Fix	0	VER	Microprocessor version information	=

⁼ Means same as other register* Means change when TV is turned on

Service					Common	RF	Composite V
	Fix/ Var	No.	Name	Description	Init	Init	Init
Group					Data	Data	Data
- 11	Var	1	HSIZ	H SIZE(EW DC)	41	35	35
DEF	Var	2	HPOS	H POSITION	15	13	13
	Var	3	VSIZ	V RAMP SIZE	25	22	23
	Var	4	VPOS	V POSITION(RAMP DC)	30	31	31
	Var	5	VLIN	V LINEARITY	37		
	Var	6	SCOR	S CORRECTION	39		
	Var	7	VBOW	BOW	37		
	Var	8	VANG	ANGLE	40		
	Var	9	TRAP	EW TRAPESIUM	29		
	Var	10	PAMP	EW PIN	31		
	Var	11	UPIN	UPPER PIN	30		
	Var	12	LPIN	LOWER PIN	31		
	Var	13	TROT	TROT	128		
	Var	14		H BLK mode select	0		
	Fix	15	RBLK	HBLK rear timing	33	30	25
	Var	16	LBLK	HBLK front timing	58	55	55
	Fix	17	VBLK	V BLK width	3		
	Fix	18	HMSK	TOP VEND(when	0		
	I IX	10	TIIVION	MACROVISION)prevent OFF			
	Fix	19	HDW	H PULSE WIDTH(25u/19u)	1		
	Fix	20	AFC	AFC GAIN	0		
	Fix	21		AFC1 TIME CONSTANT	0	7	0
	Fix	22	AFCW	AFC1 PULL IN WIDE	1		
	Fix	23	CDMD	V DET WINDOW SW TIMING	1		
	Fix	24	HSS	SYNC SLICE LEVEL(H sepa)	0		
	Fix	25	VSS	SYNC SLICE LEVEL(V sepa)	3		
	Fix	26	SLUD	Auto Slice level UP/DOWN	0		
	Fix	27	JPSW	Jump SW	0		
	Fix	28		H VCO fo offset ADJUST OFFSET	3		
	Fix	29	EHT	EHT	4		
	Fix	30	EHTG	EHT MODE	1		

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
6	Fix	1	VSIZ	V RAMP SIZE	36
. 91	Fix	2	VPOS	V POSITION(RAMP DC)	33
-	Fix	3	VLIN	V LINEARITY	26
	Fix 4		SCOR	S CORRECTION	28
	Fix	5	TRAP	EW TRAPESIUM	26
	Fix	6	PAMP	EW PIN	16
	Fix	7	UPIN	UPPER PIN	31
	Fix	8	LPIN	LOWER PIN	32
	Fix	9	ABLG	ABL GAIN	1
	Fix	10	SCON	SUB CONTRAST LEVEL	13
	Fix	11	VPW	Jump Pulse Width	1

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	RF Init Data	Composite V Init Data	YUV Init Data	Memory Stick Init Data
	Fix	1	RDRV	R DRIVE	84				
VP1	Var	2	GDRV	G DRIVE when Color Temp. is "Cool" and "Neutral"	70			70	68
	Var	3	BDRV	B DRIVE when Color Temp. is "Cool" and "Neutral"	68			67	66
	Var	4	RCUT	Hardware AKB(R) CMP DATA	100				
	Var	5	GCUT	Hardware AKB(G) CMP DATA when Color Temp. is "Cool" and "Neutral"	71			71	70
	Var	6	BCUT	Hardware AKB(B) CMP DATA when Color Temp. is "Cool" and "Neutral"	62			61	60
	Var	7	SCON	SUB CONTRAST LEVEL	12				1
	Var	8	SHUE	SUB TINT(HUE)		10	9 7	8	8
	Var	9	SCOL	SUB COLOR LEVEL		6	7	26	26
	Var	10	SBRT	SUB BRIGHTNESS	15			20	20
	Fix	11	RON	R OUTPUT ON (0:R Output OFF 1:R Output ON)	1				
	Fix	12	GON	G OUTPUT ON (0:G Output OFF 1:G Output ON)	1				
	Fix	13	BON	B OUTPUT ON (0:B Output OFF 1:B Output ON)	1				
	Fix	14	BLLV	BLUE STRETCH(00:no <-> 11:deep) only Color Temp "Cool"	1				
	Fix	15	MTRX	MATRIX RATIO SELECT	1				

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	RF Init Data	Composite V Init Data	YUV Init Data	Memory Stick Init Data
_	Fix	16	AXIS	R-Y PHASE OFFSET	52				
VP1	Fix	17	SSHO	SUB SHARPNESS GAIN(OVER) RF/VIDEO		3	2	2	3
	Fix	18	SSHP	SUB SHARPNESS GAIN(PRE) RF/VIDEO		11	11	13	13
	Fix	19	SHPF	SHRPNESS fo(00:2 CLK <-> 11:5 CLK)		0	1	0	0
	Fix	20	SHCL	SHARPNESS CORING LEVEL	1				
	Fix	21	SHMX	SHARPNESS LIMITTER LEVEL	15				
	Fix	22	AKBD	AKB Self Diagnostic Counter(@1sec)	5				
	Fix	23	AKBS	AKB Switch (0 : AKB OFF 1 : H/W AKB ON)	1				
	Fix	24	REFP	AKB REFPLS timing ("0"Fix when 16:90n)	0				
	Fix	25	YNRC	YNR LIMITER LEVEL	15				
	Fix	26	BKON	BLACK STRETCH ON	1				
	Fix	27	BKRC	BLACK STRETCH DETECTOR TIME CONSTANT1	=				
	Fix	28	BKDP	BLACK STRETCH START POINT	=				
	Fix	29	BKSP	BLACK STRETCH POINT	=				

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	RF Init Data	Composite V Init Data	YUV Init Data	Memor Stick Init Data
01	Fix	1	VMOF	VM LEVEL at "Off" Setting	2				
VP2	Fix	2	VMLO	VM LEVEL at "Low" Setting	5				
	Fix	3	VMHI	VM LEVEL at "High" Setting	11				
	Fix	4	VMDL	VM DELAY		10	10	6	6
	Fix	5	VMPL	VM PORALITY	1				
	Fix	6	VMWD	VM WIDTH	0				
	Fix	7	VMCL	VM CORING LEVEL	0				
	Fix	8	VMMX	VM LIMITER LEVEL	15				
	Fix	9	CKLV	COLOR KILLER VTH	1				
	Fix	10	CKON	FORCE KILLER	0				
	Fix	11	ALFA	ADAPTIVE DET SENSITIVITY YC SEPA FORCE	2				
	Fix	12	YCMD	SELECT(00:ADAPTIVE 01:H 10:V 11:HV)	0				
	Fix	13	VACL	V APERTURE CORING LEVEL	0				
	Fix	14	VAGA	V APERTURE GAIN LEVEL	=				
	Fix	15	VAMX	V APERTURE LIMITER LEVEL	15				
	Fix	16	GAMM	GAMMA(00:no <>11:deep)	=				
	Fix	17	YDLY	Y DELAY TIME	3				
	Fix	18	CDLY	C DELAY	2				
	Fix	19	YOFF	Y OUTPUT MUTE	0				
	Fix	20	BGPP	BGP(for C DECODER)TIMING	11				
	Fix	21	NRCH	NOISE DET VTH1	3				
	Fix	22	NRCL	NOISE DET VTH1	255				
	Fix	23	NRVL	NOISE DET VTH1	255				
	Fix	24	NRVH	NOISE DET VTH1	255				
	Fix	25	GDOF	G DRIVE OFFSET only Color Temp. "Warm"	18				
	Fix	26	BDOF	B DRIVE OFFSET only Color Temp. "Warm"	31				
	Fix	27	GCOF	GCUT CMP DATA OFFSET only Color Temp. "Warm"	2				
	Fix	28	BCOF	BCUT CMP DATA OFFSET only Color Temp. "Warm"	4				
	Fix	29	DCTV	DCTRANSFER VTH	3				
	Fix	30	DCTG	DCTRANSFER GAIN	=				

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
- 4	Var	1	SCOL	SUB COLOR LEVEL for NR	4
R K	Fix	2	SHCL	SHARPNESS NOISE CORING LEVEL for NR	15
	Fix	3	SHMX	SHARPNESS LIMITTER LEVEL for NR	7
	Fix	4	YNRC	YNR LIMITER LEVEL for NR	7
	Fix	5	VMHI	VM LEVEL at "High" Setting for NR	7
	Fix	6	VMCL	VM CORING LEVEL for NR	0
	Fix	7	VMMX	VM LIMITER LEVEL for NR	7
	Fix	8	VAGA	V APERTURE GAIN LEVEL for NR	0
	Fix	9	GAMM	GAMMA(00:no <>11:deep) for NR	0
	Fix	10	YNRS	YNR ON for NR	1
	Fix		WSTH	WEAK_SIGNAL VTH for NR	7
	Fix	12	WSVA	WEAK SIGNAL VIDEO ATT for NR	0
	Fix	13	WSCA	WEAK SIGNAL CHROMA ATT for NR	5

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	STANDARD Init Data	MOVIE Init Data	PRO Init Data
ш	Fix	1	VPIC	Picture	63	50	37	31
	Fix	2	VBRI	Brightness	31	31	28	31
PALETTI	Fix	3	VCOL	Color	32	31	31	31
K	Fix	4	VHUE	Hue	31	31	31	31
"	Fix	5	VSHA	Sharpness	35	37	34	31
	Fix	6	VVM	VM	2	1	1	0
	Fix	7	VTRI	Color Temp	0	1	2	1
	Fix	8	VAPA	Aperture G	7	4	3	0
	Fix	9	VGMA	Gamma	3	2	2	0
	Fix	10	VDCT	DCT LV	12	9	9	2
	Fix	11	BKDP	BLACK STRETCH DEPTH	2	2	1	1
	Fix	12	BKRC	BLACK ST TIME 1 & TIME 2	243	243	244	244
	Fix	13	BKSP	BLACK STRETCH POINT	3	1	1	1
	Fix	14	CONO	CONTRAST OFFSET for RF	1	0	0	0

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	16:9 Init Data	YUV Init Data	Memory Stick Init Data
	Fix	1	YNRS	YNR ON	0	Dutu	Dutu	Dutu
ASIC	Fix	2	CLPS	CLAMP CONTROL SW (0:CLAMP OFF 1:CLAMP AUTO 2:CLAMP ON)	1			
	Fix	3	VMG2	MODULATOR FEEDBACK GAIN CONTROL	1			
	Fix	4	CLPT	CLAMP AUTO ON KEEP TIMER COUNT (@100ms)	15			
	Fix	5	AASL	C DECODER TIME CONSTANT(32,16,8,1H)	2			
	Fix	6	BASL	ACC TIME CONSTANT	0			
	Fix	7	ACTH	ROM HYS	95			
	Fix	8	AVAV	AVE SEL AV	3			
	Fix	9	B2TH	B2COMP	0			
	Fix	10	AMUT	RGB POWER ON MUTE	0			
	Fix	11	PMUT	RGB MUTE(EXCEPT OSD)	1			
	Fix	12	CORL	R CUTOFF lower	0			
	Fix	13	CORH	R CUTOFF upper	1			
	Fix	14	COGL	G CUTOFF lower when Color Temp. is "Cool" and "Neutral"	0			
	Fix	15	COGH	G CUTOFF upper when Color Temp. is "Cool" and "Neutral"	1			
	Fix	16	COBL	B CUTOFF lower when Color Temp. is "Cool" and "Neutral"	0			
	Fix	17	СОВН	B CUTOFF upper when Color Temp. is "Cool" and "Neutral"	1			
	Fix	18	ALSP	ACL SPEED	0			
	Fix	19	ALAS	ACL ATACK SPEED	146			
	Fix	20	ABLG	ABL GAIN	4			
	Fix	21	AKBM	AKB MODE	0			
	Fix	22	AKBP	AKB PULSE HEIGHT	10			
	Fix	23	OSDL	OSD LIMMIT SELECT	0			
	Fix	24	UVG	UV OFFSET CANCELER ON	0			
	Var	25	UOFS	U IN OFFSET	32		31	31
	Var	26	VOFS	V IN OFFSET	32		29	29
	Fix	27	AALG	ANALOG ACL GAIN CONTROL	0			
	Fix	28	AALS	ANALOG ACL ON/OFF CONTROL	1			
	Fix	29	UVDT	UVIN DITHER TEST	14			

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	16:9 Init Data	YUV Init Data	Memory Stick Init Data
	Fix	30	HFFR	AFC1 FORCE FREERUN	0	Dutu	Dutu	Data
ASIC	Fix	31	HFUP	H FREERUN FREQUENCY UP(700Hz)	0			
`	Fix	32	JSWW	Jump Pulse Width	0			
	Fix	33	XF0A	VCXO FREERUN ADJUST	0			
	Fix	34	BGST	BGP(for PLL) TIMING	16		6	6
	Fix	35	XPHA	VCXO PHASE ADJUST	10			
	Fix	36	HRMP	AFC2 TIME CONSTANT	3			
	Fix	37	RPLU	REF PLL TIME CONSTANT	3			
	Fix	38	RPLB	REF PLL TIME CONSTANT	1			
	Fix	39	XF0B	VCXO Fo ADJUST	0			
	Fix	40	RPLS	REF VCO FB LOOP SELECT	0			
	Fix	41	SSM	SyncSepaMasking CONTROL	0			
	Fix	42		V-SAG prevent ON	0			
	Fix	43	AFC2	AFC2 GAIN CONTROL	0			
	Fix	44	VRFL	V RAMP FILTER SWITCHING OFF	0			
	Fix	45	XPLU	ACP TIME CONSTANT	1			
	Fix	46		V_LOGIC SW	1			
	Fix	47	BGPC	BGP C	0			
	Fix	48	MHDL	BGP SEL	1			
	Fix	49	BFRE	force V FREERUN	0			
	Fix	50	HRPP	FRAMP RRAMP H OUT CONTROL RANGE	2			
	Fix	51	DSCK	DS DAC CLK SW for only Not YUV	0	0		
	Fix	52	VBHK	V BLK HALF KILL only 16:90ff	0			
	Fix	53	VPW	V Pulse Wide	1			
	Fix	54	DTH	DITHER THRESHOLD LEVEL	1			
	Fix	55	SLON	CONTROL at IIC AUTOD=ON LPF SYNC ON	5		5	5
				SYNC SLICE LEVEL(V) Wide			3	3
	Fix	56	VSSW	Window	0			
	Fix	57	AF2S	AFC2 timing SW	0			
	Fix	58	VSL2	Digital V_SYNC_LPF(fall)	1			
	Fix	59	VSL1	Digital V_SYNC_LPF(rise)	0			
	Fix	60	VSHE	V-SHRINK MODE for AV-NoSync	0			
	Fix	61	DSCS	CLOCK DIV SEL	1		0	0
	Fix	62	14HI	4fsc(Skew)CLK POLARITY	0			
	Fix	63	14HD	4fscCLK(Skew)CLK DELAY ADJUST	0			

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	16:9 Init Data	YUV Init Data	Memory Stick Init Data
O	Fix	63	14HD	4fscCLK(Skew)CLK DELAY ADJUST	1			
ASIC	Fix	64	DSI	8fscCLK POLARITY	1			
•	Fix	65	DSD	8fscCLK DELAY ADJUST	0			
	Fix	66	ADCD	ADC CLK DELAY ADJUST	0			
	Fix	67	WSTH	WEAK_SIGNAL VTH	0			
	Fix	68	WSVA	WEAK SIGNAL VIDEO ATT	0			
	Fix	69	WSCA	WEAK SIGNAL CHROMA ATT	0			
	Fix	70	VREF	AD REFERNCE SELECT(VZ)	0			
	Fix	71	DCCK	AD REFERNCE SELECT(VZ)	0		12	12
	Fix	72	HT	HALF TONE LEVEL	0			
	Fix	73	OSLR	R OSD LEVEL	27			
	Fix	74	OSLG	G OSD LEVEL	27			
	Fix	75	OSDC	OSD COMP	0			
	Fix	76	OSLB	B OSD LEVEL	27			
	Var	77	HRIL	H/W AKB RED OUTPUT Lower	*			
	Var	78	HRIH	H/W AKB RED OUTPUT Upper	*			
	Var	79	HGIL	H/W AKB GREEN OUTPUT Lower	*			
	Var	80	HGIH	H/W AKB GREEN OUTPUT Upper	*			
	Var	81		H/W AKB BLUE OUTPUT Lower	*			
	Var	82	нвін	H/W AKB BLUE OUTPUT Upper	*			
	Fix	83	HLM1	H/W AKB LIM1	4			
	Fix	84	HLM2	H/W AKB LIM2	12			
	Fix	85	HLM3	H/W AKB LIM3	21			
	Fix	86	HAD1	H/W AKB SPEED1	2			
	Fix	87		H/W AKB SPEED2	6			
	Fix	88	HAKE	H/W AKB MANUAL (MCU)/HARD	1			
	Fix	89	HASP	H/W AKB SPEED	3			
	Fix	90	HERL	H/W AKB ERROR DET THRESH	10			
	Fix	91	HLMC	H/W AKB ERROR DET TIME	15			
	Fix	92	HPWL	H/W AKB POWER ON TRESH	4			
	Fix	93	HPWC	H/W AKB POWER ON TIME	2			
	Fix	94	HFMT	POWER ON H/W AKB2 HOLD TIMER(@100msec) [0 : No Hold]	20			
	Fix	95	SPMT	AKB POWER ON MUTE EXIT TIMER(@100msec)	120			
	Fix	96	GYG	G-Y Gain	0			
	Fix	97	Y16M	YUV 16 M	1			
	Fix	98	PCLP	Pedestal Clamp	0			

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
	Fix	1	SBAL	Sub Balance	4
\	Fix	2	SBAS	Sub Bass	0
AUDIO	Fix	3	STRE	Sub Treble	0
	Fix	4	SRL	Surround Level	0
	Fix	5	BBOL	Surround Off-BBE Low	3
	Fix	6	BBOH	Surround Off-BBE High	3
	Fix	7	BBSL	Simulate BBE Low	3
	Fix	8	BBSH	Simulate BBE High	3
	Fix	9	BBGL	WOW Game BBE Low	5
	Fix	10	BBGH	WOW Game BBE High	5
	Fix	11	BBTL	SRS BBE Low	0
	Fix	12	BBTH	SRS BBE High	0
	Fix	13	VFIX	Audio output fix data	240
	Fix	14	AGCL	AGC level	2
	Fix	15	VCOF	VCOF	9

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
	Var	1	DISP	OSD horizontal offset	93
	Fix	2	CCHP	for TILT data calculation	110
MICRO	Fix	3	HRLW	Low limit of H-pulse counting window (RF)	16
Σ	Fix	4	HRHG	High limit of H-pulse counting wondow (RF)	64
	Fix	5	HSDT	H-pulse Detection(S-Video)	8
	Fix	6	STPI	Gradual CONTRAST Increase Starting level	40
	Fix	7	RAPI	Gradual CONTRAST Increase Vsync counter	10
	Fix	8	ZCRD	Zero Cross Relay Delay	20
		9	ABLT	ABL protection counter	3

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
MS	FIX	1	VERS	M.S. Software Version	=

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
VERSION	Fix	0	VER	Microprocessor version information	=

Service					Common	RF	Composite V
Group	Fix/ Var	No.	Name	Description	Init	Init	Init
Group					Data	Data	Data
li .	Var	1	HSIZ	H SIZE(EW DC)	40	39	40
DEF	Var	2	HPOS	H POSITION	15	15	15
	Var	3	VSIZ	V RAMP SIZE	29	26	27
	Var	4	VPOS	V POSITION(RAMP DC)	31	31	32
	Var	5	VLIN	V LINEARITY	37		
	Var	6	SCOR	S CORRECTION	39		
	Var	7	VBOW	BOW	37		
	Var	8	VANG	ANGLE	25		
	Var	9	TRAP	EW TRAPESIUM	26		
	Var	10	PAMP	EW PIN	34		
	Var	11	UPIN	UPPER PIN	30		
	Var	12	LPIN	LOWER PIN	31		
	Var	13	TROT	TROT	128		
	Var	14	HBLK	H BLK mode select	0		
	Fix	15	RBLK	HBLK rear timing	23	25	25
	Var	16	LBLK	HBLK front timing	56	53	55
	Fix	17	VBLK	V BLK width	3		
	Fix	18	HMSK	TOP VEND(when	0		
				MACROVISION)prevent OFF			
	Fix	19	HDW	H PULSE WIDTH(25u/19u)	1		
	Fix	20	AFC	AFC GAIN	0		
	Fix	21	AFC1	AFC1 TIME CONSTANT	0	7	0
	Fix	22	AFCW	AFC1 PULL IN WIDE	1		
	Fix	23	CDMD	V DET WINDOW SW TIMING	1		
	Fix	24	HSS	SYNC SLICE LEVEL(H sepa)	0		
	Fix	25	VSS	SYNC SLICE LEVEL(V sepa)	3		
	Fix	26	SLUD	Auto Slice level UP/DOWN	0		
	Fix	27	JPSW	Jump SW	0		
	Fix	28	HOSC	H VCO fo offset ADJUST OFFSET	3		
	Fix	29	EHT	EHT	4		
	Fix	30	EHTG	EHT MODE	1		

⁼ Means same as other register

^{*} Means change when TV is turned on

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
6	Fix	1	VSIZ	V RAMP SIZE	35
	Fix	2	VPOS	V POSITION(RAMP DC)	35
16	Fix	3	VLIN	V LINEARITY	26
	Fix	4	SCOR	S CORRECTION	28
	Fix	5	TRAP	EW TRAPESIUM	24
	Fix	6	PAMP	EW PIN	17
	Fix	7	UPIN	UPPER PIN	31
	Fix	8	LPIN	LOWER PIN	32
	Fix	9	ABLG	ABL GAIN	1
	Fix	10	SCON	SUB CONTRAST LEVEL	13
	Fix	11	VPW	Jump Pulse Width	1

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	RF Init Data	Composite V Init Data	YUV Init Data	Memory Stick Init Data
7	Fix	1	RDRV	R DRIVE	84				
VP1	Var	2	GDRV	G DRIVE when Color Temp. is "Cool" and "Neutral"	63			64	47
	Var	3	BDRV	B DRIVE when Color Temp. is "Cool" and "Neutral"	68			68	62
	Var	4	RCUT	Hardware AKB(R) CMP DATA	100				
	Var	5	GCUT	Hardware AKB(G) CMP DATA when Color Temp. is "Cool" and "Neutral"	67			68	67
	Var	6	BCUT	Hardware AKB(B) CMP DATA when Color Temp. is "Cool" and "Neutral"	69			63	49
	Var	7	SCON	SUB CONTRAST LEVEL	13				23
	Var	8	SHUE	SUB TINT(HUE)		10	8	7	10
	Var	9	SCOL	SUB COLOR LEVEL		6	9	27	16
	Var	10	SBRT	SUB BRIGHTNESS	14			21	16

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	RF Init Data	Composite V Init Data	YUV Init Data	Memory Stick Init Data
2	Fix	11	RON	R OUTPUT ON (0:R Output OFF 1:R Output ON)	1				
\ Y	Fix	12	GON	G OUTPUT ON (0:G Output OFF 1:G Output ON)	1				
	Fix	13	BON	B OUTPUT ON (0:B Output OFF 1:B Output ON)	1				
	Fix	14	BLLV	BLUE STRETCH(00:no <-> 11:deep) only Color Temp "Cool"	1				
	Fix	15	MTRX	MATRIX RATIO SELECT	1				
	Fix	16	AXIS	R-Y PHASE OFFSET	52				
	Fix	17	SSHO	SUB SHARPNESS GAIN(OVER) RF/VIDEO		3	2	2	12
	Fix	18	SSHP	SUB SHARPNESS GAIN(PRE) RF/VIDEO		11	11	13	18
	Fix	19	SHPF	SHRPNESS fo(00:2 CLK <-> 11:5 CLK)		0	1	0	1
	Fix	20	SHCL	SHARPNESS CORING LEVEL	1				
	Fix	21	SHMX	SHARPNESS LIMITTER LEVEL	15				
	Fix	22	AKBD	AKB Self Diagnostic Counter(@1sec)	5				
	Fix	23	AKBS	AKB Switch (0 : AKB OFF 1 : H/W AKB ON)	1				
	Fix	24	REFP	AKB REFPLS timing ("0"Fix when 16:9On)	0				
	Fix	25	YNRC	YNR LIMITER LEVEL	15				
	Fix	26	BKON	BLACK STRETCH ON	1				
	Fix	27	BKRC	BLACK STRETCH DETECTOR TIME CONSTANT1	=				
	Fix	28	BKDP	BLACK STRETCH START POINT	=				
	Fix	29	BKSP	BLACK STRETCH POINT	=				

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	RF Init Data	Composite V Init Data	YUV Init Data	Memory Stick Init Data
2	Fix	1	VMOF	VM LEVEL at "Off" Setting	2				
VP2	Fix	2	VMLO	VM LEVEL at "Low" Setting	5				
	Fix	3	VMHI	VM LEVEL at "High" Setting	11				
	Fix	4	VMDL	VM DELAY		10	10	6	6
	Fix	5	VMPL	VM PORALITY	1				
	Fix	6	VMWD	VM WIDTH	0				
	Fix	7	VMCL	VM CORING LEVEL	0				
	Fix	8	VMMX	VM LIMITER LEVEL	15				
	Fix	9	CKLV	COLOR KILLER VTH	1				
	Fix	10	CKON	FORCE KILLER	0				
	Fix	11	ALFA	ADAPTIVE DET SENSITIVITY YC SEPA FORCE	2				
	Fix	12	YCMD	SELECT(00:ADAPTIVE 01:H 10:V 11:HV)	0				
	Fix	13	VACL	V APÉRTURE CORING LEVEL	0				
	Fix	14	VAGA	V APERTURE GAIN LEVEL	=				
	Fix	15	VAMX	V APERTURE LIMITER LEVEL	15				
	Fix	16	GAMM	GAMMA(00:no <>11:deep)	=				
	Fix	17	YDLY	Y DELAY TIME	3				
	Fix	18	CDLY	C DELAY	2				
	Fix	19	YOFF	Y OUTPUT MUTE	0				
	Fix	20	BGPP	BGP(for C DECODER)TIMING	11				
	Fix	21	NRCH	NOISE DET VTH1	3				
	Fix	22	NRCL	NOISE DET VTH1	255				
	Fix	23	NRVL	NOISE DET VTH1	255				
	Fix	24	NRVH	NOISE DET VTH1	255				
	Fix	25	GDOF	G DRIVE OFFSET only Color Temp. "Warm"	18				
	Fix	26	BDOF	B DRIVE OFFSET only Color Temp. "Warm"	31				
	Fix	27	GCOF	GCUT CMP DATA OFFSET only Color Temp. "Warm"	2				
	Fix	28	BCOF	BCUT CMP DATA OFFSET only Color Temp. "Warm"	4				
	Fix	29	DCTV	DCTRANSFER VTH	3				
	Fix	30	DCTG	DCTRANSFER GAIN	=				

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
	Var	1	SCOL	SUB COLOR LEVEL for NR	6
Z Z	Fix	2	SHCL	SHARPNESS NOISE CORING LEVEL for NR	15
	Fix	3	SHMX	SHARPNESS LIMITTER LEVEL for NR	7
	Fix	4	YNRC	YNR LIMITER LEVEL for NR	7
	Fix	5	VMHI	VM LEVEL at "High" Setting for NR	7
	Fix	6	VMCL	VM CORING LEVEL for NR	0
	Fix	7	VMMX	VM LIMITER LEVEL for NR	7
	Fix	8	VAGA	V APERTURE GAIN LEVEL for NR	0
	Fix	9	GAMM	GAMMA(00:no <>11:deep) for NR	0
	Fix	10	YNRS	YNR ON for NR	1
	Fix	11	WSTH	WEAK_SIGNAL VTH for NR	7
	Fix	12	WSVA	WEAK SIGNAL VIDEO ATT for NR	0
	Fix	13	WSCA	WEAK SIGNAL CHROMA ATT for NR	5

Service Group	Fix/ Var	No.	Name	Description	VIVID Init Data	STANDARD Init Data	MOVIE Init Data	PRO Init Data
	Fix	1	VPIC	Picture	63	50	37	31
PALETTE	Fix	2	VBRI	Brightness	31	31	28	31
<u> </u>	Fix	3	VCOL	Color	32	31	31	31
l P	Fix	4	VHUE	Hue	31	31	31	31
_	Fix	5	VSHA	Sharpness	35	37	34	31
	Fix	6	VVM	VM	2	1	1	0
	Fix	7	VTRI	Color Temp	0	1	2	1
	Fix	8	VAPA	Aperture G	7	4	3	0
	Fix	9	VGMA	Gamma	3	2	2	0
	Fix	10	VDCT	DCT LV	12	9	9	2
	Fix	11	BKDP	BLACK STRETCH DEPTH	2	2	1	1
	Fix	12	BKRC	BLACK ST TIME 1 & TIME 2	243	243	244	244
	Fix	13	BKSP	BLACK STRETCH POINT	3	1	1	1
	Fix	14	CONO	CONTRAST OFFSET for RF	10	0	0	0

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	16:9 Init Data	YUV Init Data	Memory Stick Init Data
	Fix	1	YNRS	YNR ON	0			
ASIC	Fix	2	CLPS	CLAMP CONTROL SW (0:CLAMP OFF 1:CLAMP AUTO 2:CLAMP ON)	1			
	Fix	3	VMG2	MODULATOR FEEDBACK GAIN CONTROL	1			
	Fix	4	CLPT	CLAMP AUTO ON KEEP TIMER COUNT (@100ms)	15			
	Fix	5	AASL	C DECODER TIME CONSTANT(32,16,8,1H)	2			
	Fix	6	BASL	ACC TIME CONSTANT	0			
	Fix	7	ACTH	ROM HYS	95			
	Fix	8	AVAV	AVE SEL AV	3			
	Fix	9	B2TH	B2COMP	0			
	Fix	10	AMUT	RGB POWER ON MUTE	0			
	Fix	11	PMUT	RGB MUTE(EXCEPT OSD)	1			
	Fix	12	CORL	R CUTOFF lower	0			
	Fix	13	CORH	R CUTOFF upper	1			
	Fix	14	COGL	G CUTOFF lower when Color Temp. is "Cool" and "Neutral"	0			
	Fix	15	COGH	G CUTOFF upper when Color Temp. is "Cool" and "Neutral"	1			
	Fix	16	COBL	B CUTOFF lower when Color Temp. is "Cool" and "Neutral"	0			
	Fix	17	совн	B CUTOFF upper when Color Temp. is "Cool" and "Neutral"	1			
	Fix	18	ALSP	ACL SPEED	0			
	Fix	19	ALAS	ACL ATACK SPEED	146			
	Fix	20	ABLG	ABL GAIN	4			
	Fix	21	AKBM	AKB MODE	0			
	Fix	22	AKBP	AKB PULSE HEIGHT	10			
	Fix	23	OSDL	OSD LIMMIT SELECT	0			
	Fix	24	UVG	UV OFFSET CANCELER ON	0			
	Var	25	UOFS	U IN OFFSET	32		36	32
	Var	26	VOFS	V IN OFFSET	32		37	32
	Fix	27	AALG	ANALOG ACL GAIN CONTROL	0			
	Fix	28	AALS	ANALOG ACL ON/OFF CONTROL	1			
	Fix	29	UVDT	UVIN DITHER TEST	14			

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	16:9 Init Data	YUV Init Data	Memory Stick Init Data
()	Fix	30	HFFR	AFC1 FORCE FREERUN	0			
ASIC	Fix	31	HFUP	H FREERUN FREQUENCY UP(700Hz)	0			
	Fix	32	JSWW	Jump Pulse Width	0			
	Fix	33	XF0A	VCXO FREERUN ADJUST	0			
	Fix	34	BGST	BGP(for PLL) TIMING	16		6	16
	Fix	35	XPHA	VCXO PHASE ADJUST	10			
	Fix	36	HRMP	AFC2 TIME CONSTANT	3			
	Fix	37	RPLU	REF PLL TIME CONSTANT	3			
	Fix	38	RPLB	REF PLL TIME CONSTANT	1			
	Fix	39	XF0B	VCXO Fo ADJUST	0			
	Fix	40	RPLS	REF VCO FB LOOP SELECT	0			
	Fix	41	SSM	SyncSepaMasking CONTROL	0			
	Fix	42	VSAG	V-SAG prevent ON	0			
	Fix	43	AFC2	AFC2 GAIN CONTROL	0			
	Fix	44	VRFL	V RAMP FILTER SWITCHING OFF	0			
	Fix	45	XPLU	ACP TIME CONSTANT	1			
	Fix	46	CDM2	V_LOGIC SW	1			
	Fix	47	BGPC	BGP C	0			
	Fix	48	MHDL	BGP SEL	1			
	Fix	49	BFRE	force V FREERUN	0			
	Fix	50	HRPP	FRAMP RRAMP H OUT CONTROL RANGE	2			
	Fix	51	DSCK	DS DAC CLK SW for only Not YUV	0	0		
	Fix	52	VBHK	V BLK HALF KILL only 16:90ff	0	_		
	Fix	53	VPW	V Pulse Wide	1			
	Fix	54	DTH	DITHER THRESHOLD LEVEL CONTROL at IIC AUTOD=ON	1			
	Fix	55	SLON	LPF SYNC ON	5		5	5
	Fix	56	VSSW	SYNC SLICE LEVEL(V) Wide Window	0			
	Fix	57	AF2S	AFC2 timing SW	0			
	Fix	58	VSL2	Digital V_SYNC_LPF(fall)	1			
	Fix	59	VSL1	Digital V_SYNC_LPF(rise)	0			
	Fix	60	VSHE	V-SHRINK MODE for AV-NoSync	0			
	Fix	61	DSCS	CLOCK DIV SEL	1		0	0
	Fix	62	14HI	4fsc(Skew)CLK POLARITY	1			
	Fix	63	14HD	4fscCLK(Skew)CLK DELAY ADJUST	0			

Service Group	Fix/ Var	No.	Name	Description	Common Init	16:9 Init	YUV Init	Memory Stick Init
					Data	Data	Data	Data
O	Fix	64	DSI	8fscCLK POLARITY	1			
ASIC	Fix	65	DSD	8fscCLK DELAY ADJUST	0			
4	Fix	66	ADCD	ADC CLK DELAY ADJUST	0			
	Fix	67	WSTH	WEAK_SIGNAL VTH	0			
	Fix	68	WSVA	WEAK SIGNAL VIDEO ATT	0			
	Fix	69	WSCA	WEAK SIGNAL CHROMA ATT	0			
	Fix	70	VREF	AD REFERNCE SELECT(VZ)	0			
	Fix	71	DCCK	AD REFERNCE SELECT(VZ)	0		12	12
	Fix	72	HT	HALF TONE LEVEL	0			
	Fix	73	OSLR	R OSD LEVEL	27			
	Fix	74	OSLG	G OSD LEVEL	27			
	Fix	75	OSDC	OSD COMP	0			
	Fix	76	OSLB	B OSD LEVEL	27			
	Var	77	HRIL	H/W AKB RED OUTPUT Lower	*			
	Var	78	HRIH	H/W AKB RED OUTPUT Upper	*			
	Var	79	HGIL	H/W AKB GREEN OUTPUT Lower	*			
	Var	80	HGIH	H/W AKB GREEN OUTPUT Upper	*			
	Var	81	HBIL	H/W AKB BLUE OUTPUT Lower	*			
	Var	82	HBIH	H/W AKB BLUE OUTPUT Upper	*			
	Fix	83	HLM1	H/W AKB LIM1	4			
	Fix	84	HLM2	H/W AKB LIM2	12			
	Fix	85	HLM3	H/W AKB LIM3	21			
	Fix	86	HAD1	H/W AKB SPEED1	2			
	Fix	87	HAD2	H/W AKB SPEED2	6			
	Fix	88	HAKE	H/W AKB MANUAL (MCU)/HARD	1			
	Fix	89	HASP	H/W AKB SPEED	3			
	Fix	90	HERL	H/W AKB ERROR DET THRESH	10			
	Fix	91	HLMC	H/W AKB ERROR DET TIME	15			
	Fix	92	HPWL	H/W AKB POWER ON TRESH	4			
	Fix	93	HPWC	H/W AKB POWER ON TIME	2			
	Fiv	04	LIEMT	POWER ON H/W AKB2 HOLD	20			
	Fix	94	HFMT	TIMER(@100msec) [0 : No Hold]	20			
	Fix	95	SPMT	AKB POWER ON MUTE EXIT TIMER(@100msec)	120			
	Fix	96	GYG	G-Y Gain	0			
	Fix	97	Y16M	YUV 16 M	1			
	Fix	98	PCLP	Pedestal Clamp	0			

					Common
Service Group	Fix/ Var	No.	Name	Description	Init
•					Data
<u>o</u>	Fix	1	SBAL	Sub Balance	4
AUDIO	Fix	2	SBAS	Sub Bass	0
₹	Fix	3	STRE	Sub Treble	0
	Fix	4	SRL	Surround Level	0
	Fix	5	BBOL	Surround Off-BBE Low	3
	Fix	6	BBOH	Surround Off-BBE High	3
	Fix	7	BBSL	Simulate BBE Low	3
	Fix	8	BBSH	Simulate BBE High	3
	Fix	9	BBGL	WOW Game BBE Low	0
	Fix	10	BBGH	WOW Game BBE High	0
	Fix	11	BBTL	SRS BBE Low	3
	Fix	12	BBTH	SRS BBE High	3
	Fix	13	VFIX	Audio output fix data	240
	Fix	14	AGCL	AGC level	2
	Fix	15	VCOF	VCOF	9

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
	Var	1	DISP	OSD horizontal offset	93
, K	Fix	2	CCHP	for TILT data calculation	110
MICRO	Fix	3	HRLW	Low limit of H-pulse counting window (RF)	16
	Fix	4	HRHG	High limit of H-pulse counting wondow (RF)	64
	Fix	5	HSDT	H-pulse Detection(S-Video)	8
	Fix	6	STPI	Gradual CONTRAST Increase Starting level	40
	Fix	7	RAPI	Gradual CONTRAST Increase Vsync counter	10
	Fix	8	ZCRD	Zero Cross Relay Delay	20
		9	ABLT	ABL protection counter	3

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
MS	FIX	1	VERS	M.S. Software Version	=

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
VERSION	Fix	0	VER	Microprocessor version information	II

⁼ Means same as other register* Means change when TV is turned

Service					Common	RF	Composite V
Group	Fix/ Var	No.	Name	Description	Init	Init	Init
Огоар					Data	Data	Data
ш	Var	1	HSIZ	H SIZE(EW DC)	41	36	36
DEF	Var	2	HPOS	H POSITION	15	14	14
	Var	3	VSIZ	V RAMP SIZE	28	26	26
	Var	4	VPOS	V POSITION(RAMP DC)	31	32	32
	Var	5	VLIN	V LINEARITY	37		
	Var	6	SCOR	S CORRECTION	39		
	Var	7	VBOW	BOW	26		
	Var	8	VANG	ANGLE	43		
	Var	9	TRAP	EW TRAPESIUM	28		
	Var	10	PAMP	EW PIN	36		
	Var	11	UPIN	UPPER PIN	29		
	Var	12	LPIN	LOWER PIN	30		
	Var	13	TROT	TROT	128		
	Var	14	HBLK	H BLK mode select	0		
	Fix	15	RBLK	HBLK rear timing	21	25	25
	Var	16	LBLK	HBLK front timing	56	51	55
	Fix	17	VBLK	V BLK width	3		
	Fix	18	HMSK	TOP VEND(when MACROVISION)prevent OFF	0		
	Fix	19	HDW	H PULSE WIDTH(25u/19u)	1		
	Fix	20	AFC	AFC GAIN	0		
	Fix	21	AFC1	AFC1 TIME CONSTANT	0	7	0
	Fix	22	AFCW	AFC1 PULL IN WIDE	1		
	Fix	23	CDMD	V DET WINDOW SW TIMING	1		
	Fix	24	HSS	SYNC SLICE LEVEL(H sepa)	0		
	Fix	25	VSS	SYNC SLICE LEVEL(V sepa)	3		
	Fix	26	SLUD	Auto Slice level UP/DOWN	0		
	Fix	27	JPSW	Jump SW	0		
	Fix	28	HOSC	H VCO fo offset ADJUST OFFSET	3		
	Fix	29	EHT	EHT	4		
	Fix	30	EHTG	EHT MODE	1		

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
6	Fix	1	VSIZ	V RAMP SIZE	36
	Fix	2	VPOS	V POSITION(RAMP DC)	34
-	Fix	3	VLIN	V LINEARITY	26
	Fix	4	SCOR	S CORRECTION	28
	Fix	5	TRAP	EW TRAPESIUM	23
	Fix	6	PAMP	EW PIN	18
	Fix	7	UPIN	UPPER PIN	31
	Fix	8	LPIN	LOWER PIN	32
	Fix	9	ABLG	ABL GAIN	1
	Fix	10	SCON	SUB CONTRAST LEVEL	10
	Fix	11	VPW	Jump Pulse Width	1

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	RF Init Data	Composite V Init Data	YUV Init Data	Memory Stick Init Data
_	Fix	1	RDRV	R DRIVE	84				
VP1	Var	2	GDRV	G DRIVE when Color Temp. is "Cool" and "Neutral"	74			77	77
	Var	3	BDRV	B DRIVE when Color Temp. is "Cool" and "Neutral"	73			74	74
	Var	4	RCUT	Hardware AKB(R) CMP DATA	100				
	Var	5	GCUT	Hardware AKB(G) CMP DATA when Color Temp. is "Cool" and "Neutral"	70			73	73
	Var	6	BCUT	Hardware AKB(B) CMP DATA when Color Temp. is "Cool" and "Neutral"	56			54	54
	Var	7	SCON	SUB CONTRAST LEVEL	10				1
	Var	8	SHUE	SUB TINT(HUE)		10	7	7	7
	Var	9	SCOL	SUB COLOR LEVEL		9	10	26	26
	Var	10	SBRT	SUB BRIGHTNESS	17			23	23
	Fix	11	RON	R OUTPUT ON (0:R Output OFF 1:R Output ON)	1				
	Fix	12	GON	G OUTPUT ON (0:G Output OFF 1:G Output ON)	1				
	Fix	13	BON	B OUTPUT ON (0:B Output OFF 1:B Output ON)	1				
	Fix	14	BLLV	BLUE STRETCH(00:no <-> 11:deep) only Color Temp "Cool"	1				
	Fix	15	MTRX	MATRIX RATIO SELECT	1				

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	RF Init Data	Composite V Init Data	YUV Init Data	Memory Stick Init Data
	Fix	16	AXIS	R-Y PHASE OFFSET	52				
VP1	Fix	17	SSHO	SUB SHARPNESS GAIN(OVER) RF/VIDEO		3	2	2	3
	Fix	18	SSHP	SUB SHARPNESS GAIN(PRE) RF/VIDEO		11	11	13	13
	Fix	19	SHPF	SHRPNESS fo(00:2 CLK <-> 11:5 CLK)		0	1	0	0
	Fix	20	SHCL	SHARPNESS CORING LEVEL	1				
	Fix	21	SHMX	SHARPNESS LIMITTER LEVEL	15				
	Fix	22	AKBD	AKB Self Diagnostic Counter(@1sec)	5				
	Fix	23	AKBS	AKB Switch (0 : AKB OFF 1 : H/W AKB ON)	1				
	Fix	24	REFP	AKB REFPLS timing ("0"Fix when 16:90n)	0				
	Fix	25	YNRC	YNR LIMITER LEVEL	15				
	Fix	26	BKON	BLACK STRETCH ON	1				
	Fix	27	BKRC	BLACK STRETCH DETECTOR TIME CONSTANT1	=				
	Fix	28	BKDP	BLACK STRETCH START POINT	=				
	Fix	29	BKSP	BLACK STRETCH POINT	=				

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	RF Init Data	Composite V Init Data	YUV Init Data	Memory Stick Init Data
0.1	Fix	1	VMOF	VM LEVEL at "Off" Setting	2				
VP2	Fix	2	VMLO	VM LEVEL at "Low" Setting	5				
_	Fix	3	VMHI	VM LEVEL at "High" Setting	11				
	Fix	4	VMDL	VM DELAY		10	10	6	6
	Fix	5	VMPL	VM PORALITY	1				
	Fix	6	VMWD	VM WIDTH	0				
	Fix	7	VMCL	VM CORING LEVEL	0				
	Fix	8	VMMX	VM LIMITER LEVEL	15				
	Fix	9	CKLV	COLOR KILLER VTH	1				
	Fix	10	CKON	FORCE KILLER	0				
	Fix	11	ALFA	ADAPTIVE DET SENSITIVITY YC SEPA FORCE	2				
	Fix	12	YCMD	SELECT(00:ADAPTIVE 01:H 10:V 11:HV)	0				
	Fix	13	VACL	V APERTURE CORING LEVEL	0				
	Fix	14	VAGA	V APERTURE GAIN LEVEL	=				
	Fix	15	VAMX	V APERTURE LIMITER LEVEL	15				
	Fix	16	GAMM	GAMMA(00:no <>11:deep)	=				
	Fix	17		Y DELAY TIME	3				
	Fix	18	CDLY	C DELAY	2				
	Fix	19	YOFF	Y OUTPUT MUTE	0				
	Fix	20	BGPP	BGP(for C DECODER)TIMING	11				
	Fix	21	NRCH	NOISE DET VTH1	3				
	Fix	22	NRCL	NOISE DET VTH1	255				
	Fix	23	NRVL	NOISE DET VTH1	255				
	Fix	24	NRVH	NOISE DET VTH1	255				
	Fix	25	GDOF	G DRIVE OFFSET only Color Temp. "Warm"	18				
	Fix	26	BDOF	B DRIVE OFFSET only Color Temp. "Warm"	31				
	Fix	27	GCOF	GCUT CMP DATA OFFSET only Color Temp. "Warm"	2				
	Fix	28	BCOF	BCUT CMP DATA OFFSET only Color Temp. "Warm"	4				
	Fix	29	DCTV	DCTRANSFER VTH	3				
	Fix	30	DCTG	DCTRANSFER GAIN	=				

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
- 4	Var	1	SCOL	SUB COLOR LEVEL for NR	8
N K	Fix	2	SHCL	SHARPNESS NOISE CORING LEVEL for NR	15
	Fix	3	SHMX	SHARPNESS LIMITTER LEVEL for NR	7
	Fix	4	YNRC	YNR LIMITER LEVEL for NR	7
	Fix	5	VMHI	VM LEVEL at "High" Setting for NR	7
	Fix	6	VMCL	VM CORING LEVEL for NR	0
	Fix	7	VMMX	VM LIMITER LEVEL for NR	7
	Fix	8	VAGA	V APERTURE GAIN LEVEL for NR	0
	Fix	9	GAMM	GAMMA(00:no <>11:deep) for NR	0
	Fix	10	YNRS	YNR ON for NR	1
	Fix	11	WSTH	WEAK_SIGNAL VTH for NR	7
	Fix	12	WSVA	WEAK SIGNAL VIDEO ATT for NR	0
	Fix	13	WSCA	WEAK SIGNAL CHROMA ATT for NR	5

Service Group	Fix/ Var	No.	Name	Description	VIVID Init Data	STANDARD Init Data	MOVIE Init Data	PRO Init Data
111	Fix	1	VPIC	Picture	63	50	37	31
	Fix	2	VBRI	Brightness	31	31	28	31
<u> </u>	Fix	3	VCOL	Color	32	31	31	31
PALETTE	Fix	4	VHUE	Hue	31	31	31	31
Ц.	Fix	5	VSHA	Sharpness	35	37	34	31
	Fix	6	VVM	VM	2	1	1	0
	Fix	7	VTRI	Color Temp	0	1	2	1
	Fix	8	VAPA	Aperture G	7	4	3	0
	Fix	9	VGMA	Gamma	3	2	2	0
	Fix	10	VDCT	DCT LV	12	9	9	2
	Fix	11	BKDP	BLACK STRETCH DEPTH	2	2	1	1
	Fix	12	BKRC	BLACK ST TIME 1 & TIME 2	243	243	244	244
	Fix	13	BKSP	BLACK STRETCH POINT	3	1	1	1
	Fix	14	CONO	CONTRAST OFFSET for RF	1	0	0	0

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	16:9 Init Data	YUV Init Data	Memory Stick Init Data
	Fix	1	YNRS	YNR ON	0			
ASIC	Fix	2	CLPS	CLAMP CONTROL SW (0:CLAMP OFF 1:CLAMP AUTO 2:CLAMP ON)	1			
	Fix	3	VMG2	MODULATOR FEEDBACK GAIN CONTROL	1			
	Fix	4	CLPT	CLAMP AUTO ON KEEP TIMER COUNT (@100ms)	15			
	Fix	5	AASL	C DECODER TIME CONSTANT(32,16,8,1H)	2			
	Fix	6	BASL	ACC TIME CONSTANT	0			
	Fix	7	ACTH	ROM HYS	95			
	Fix	8	AVAV	AVE SEL AV	3			
	Fix	9		B2COMP	0			
	Fix	10	AMUT	RGB POWER ON MUTE	0			
	Fix	11	PMUT	RGB MUTE(EXCEPT OSD)	1			
	Fix	12	CORL	R CUTOFF lower	0			
	Fix	13	CORH	R CUTOFF upper	1			
	Fix	14	COGL	G CUTOFF lower when Color Temp. is "Cool" and "Neutral"	0			
	Fix	15	COGH	G CUTOFF upper when Color Temp. is "Cool" and "Neutral"	1			
	Fix	16	COBL	B CUTOFF lower when Color Temp. is "Cool" and "Neutral"	0			
	Fix	17	СОВН	B CUTOFF upper when Color Temp. is "Cool" and "Neutral"	1			
	Fix	18	ALSP	ACL SPEED	0			
	Fix	19	ALAS	ACL ATACK SPEED	146			
	Fix	20	ABLG	ABL GAIN	4			
	Fix	21	AKBM	AKB MODE	0			
	Fix	22	AKBP	AKB PULSE HEIGHT	10			
	Fix	23	OSDL	OSD LIMMIT SELECT	0			
	Fix	24	UVG	UV OFFSET CANCELER ON	0			
	Var	25	UOFS	U IN OFFSET	32		27	28
	Var	26	VOFS	V IN OFFSET	32		31	33
	Fix	27	AALG	ANALOG ACL GAIN CONTROL	0			
	Fix	28	AALS	ANALOG ACL ON/OFF CONTROL	1			
	Fix	29	UVDT	UVIN DITHER TEST	14			

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	16:9 Init Data	YUV Init Data	Memory Stick Init Data
	Fix	30	HFFR	AFC1 FORCE FREERUN	0	2414	Data	
ASIC	Fix	31	HFUP	H FREERUN FREQUENCY UP(700Hz)	0			
	Fix	32	JSWW	Jump Pulse Width	0			
	Fix	33	XF0A	VCXO FREERUN ADJUST	0			
	Fix	34	BGST	BGP(for PLL) TIMING	16		6	6
	Fix	35	XPHA	VCXÒ PHASE ADJUST	10			
	Fix	36	HRMP	AFC2 TIME CONSTANT	3			
	Fix	37	RPLU	REF PLL TIME CONSTANT	3			
	Fix	38	RPLB	REF PLL TIME CONSTANT	1			
	Fix	39	XF0B	VCXO Fo ADJUST	0			
	Fix	40	RPLS	REF VCO FB LOOP SELECT	0			
	Fix	41	SSM	SyncSepaMasking CONTROL	0			
	Fix	42	VSAG	V-SAG prevent ON	0			
	Fix	43	AFC2	AFC2 GAIN CONTROL	0			
	Fix	44	VRFL	V RAMP FILTER SWITCHING OFF	0			
	Fix	45	XPLU	ACP TIME CONSTANT	1			
	Fix	46	CDM2	V_LOGIC SW	1			
	Fix	47	BGPC	BGP C	0			
	Fix	48	MHDL	BGP SEL	1			
	Fix	49	BFRE	force V FREERUN	0			
	Fix	50	HRPP	FRAMP RRAMP H OUT CONTROL RANGE	2			
	Fix	51	DSCK	DS DAC CLK SW for only Not YUV	0	0		
	Fix	52	VBHK	V BLK HALF KILL only 16:90ff	0			
	Fix	53	VPW	V Pulse Wide	1			
	Fix	54	DTH	DITHER THRESHOLD LEVEL CONTROL at IIC AUTOD=ON	1			
	Fix	55	SLON	LPF SYNC ON	5		5	5
	Fix	56	VSSW	SYNC SLICE LEVEL(V) Wide Window	0			
	Fix	57	AF2S	AFC2 timing SW	0			
	Fix	58	VSL2	Digital V_SYNC_LPF(fall)	1			
	Fix	59	VSL1	Digital V_SYNC_LPF(rise)	0			
	Fix	60	VSHE	V-SHRINK MODE for AV-NoSync	0			
	Fix	61	DSCS	CLOCK DIV SEL	1		0	0
	Fix	62	14HI	4fsc(Skew)CLK POLARITY	0			
	Fix	63	14HD	4fscCLK(Skew)CLK DELAY ADJUST	0			

Service Group	Fix/ Var	No.	Name	Description	Common Init Data	16:9 Init Data	YUV Init Data	Memory Stick Init Data
O	Fix	63	14HD	4fscCLK(Skew)CLK DELAY ADJUST	1			
ASIC	Fix	64	DSI	8fscCLK POLARITY	1			
_ ~	Fix	65	DSD	8fscCLK DELAY ADJUST	0			
	Fix	66	ADCD	ADC CLK DELAY ADJUST	Ö			
	Fix	67	WSTH	WEAK_SIGNAL VTH	0			
	Fix	68	WSVA	WEAK SIGNAL VIDEO ATT	0			
	Fix	69		WEAK SIGNAL CHROMA ATT	0			
	Fix	70	VREF	AD REFERNCE SELECT(VZ)	0			
	Fix	71		AD REFERNCE SELECT(VZ)	0		12	12
	Fix	72	HT	HALF TONE LEVEL	0			
	Fix	73	OSLR	R OSD LEVEL	27			
	Fix	74	OSLG	G OSD LEVEL	27			
	Fix	75	OSDC	OSD COMP	0			
	Fix	76	OSLB	B OSD LEVEL	27			
	Var	77	HRIL	H/W AKB RED OUTPUT Lower	*			
	Var	78	HRIH	H/W AKB RED OUTPUT Upper	*			
	Var	79	HGIL	H/W AKB GREEN OUTPUT Lower	*			
	Var	80	HGIH	H/W AKB GREEN OUTPUT Upper	*			
	Var	81	HBIL	H/W AKB BLUE OUTPUT Lower	*			
	Var	82	HBIH	H/W AKB BLUE OUTPUT Upper	*			
	Fix	83	HLM1	H/W AKB LIM1	4			
	Fix	84	HLM2	H/W AKB LIM2	12			
	Fix	85	HLM3	H/W AKB LIM3	21			
	Fix	86	HAD1	H/W AKB SPEED1	2			
	Fix	87	HAD2	H/W AKB SPEED2	6			
	Fix	88	HAKE	H/W AKB MANUAL (MCU)/HARD	1			
	Fix	89	HASP	H/W AKB SPEED	3			
	Fix	90	HERL	H/W AKB ERROR DET THRESH	10			
	Fix	91	HLMC	H/W AKB ERROR DET TIME	15			
	Fix	92	HPWL	H/W AKB POWER ON TRESH	4			
	Fix	93	HPWC	H/W AKB POWER ON TIME	2			
	Fix	94	HFMT	POWER ON H/W AKB2 HOLD TIMER(@100msec) [0 : No Hold]	20			
	Fix	95	SPMT	AKB POWER ON MUTE EXIT TIMER(@100msec)	120			
	Fix	96	GYG	G-Y Gain	0			
	Fix	97	Y16M	YUV 16 M	1			
	Fix	98	PCLP	Pedestal Clamp	0			

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
	Fix	1	SBAL	Sub Balance	4
<u>o</u>	Fix	2	SBAS	Sub Bass	0
AUDIO	Fix	3	STRE	Sub Treble	0
A	Fix	4	SRL	Surround Level	0
	Fix	5	BBOL	Surround Off-BBE Low	3
	Fix	6	BBOH	Surround Off-BBE High	3
	Fix	7	BBSL	Simulate BBE Low	3
	Fix	8	BBSH	Simulate BBE High	3
	Fix	9	BBGL	WOW Game BBE Low	5
	Fix	10	BBGH	WOW Game BBE High	5
	Fix	11	BBTL	SRS BBE Low	0
	Fix	12	BBTH	SRS BBE High	0
	Fix	13	VFIX	Audio output fix data	240
	Fix 1		AGCL	AGC level	2
	Fix	15	VCOF	VCOF	9

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
	Var	1	DISP	OSD horizontal offset	93
l Ä	Fix	2	CCHP	for TILT data calculation	110
MICRO	Fix	3	HRLW	Low limit of H-pulse counting window (RF)	16
	Fix	4	HRHG	High limit of H-pulse counting wondow (RF)	64
	Fix	5	HSDT	H-pulse Detection(S-Video)	8
	Fix	6	STPI	Gradual CONTRAST Increase Starting level	40
	Fix	7	RAPI	Gradual CONTRAST Increase Vsync counter	10
	Fix	8	ZCRD	Zero Cross Relay Delay	20
		9	ABLT	ABL protection counter	3

Service Group	Fix/ Var	No.	Name	Description	Common Init Data
MS	FIX	1	VERS	M.S. Software Version	Ш

4-5. ID MAP TABLE

Model	Destination	ID-O	ID-1	ID-2	ID-3	ID-4	ID-5	ID-6	ID-7
KV-27FS320	US	89	63	231	32	8	0	0	4
KV-27FS320	CND	89	63	231	48	8	0	0	4
KV-32FS120	US	89	15	199	32	8	0	0	4
KV-32FS120	CND	89	15	199	48	8	0	0	4
KV-32FS320	US	89	63	231	32	8	0	0	4
KV-32FS320	CND	89	63	231	48	8	0	0	4
KV-34FS120	L NORTH	81	15	199	128	24	0	32	68
KV-34FS120	L SOUTH	81	15	199	128	24	0	32	68
KV-36FS120	US	89	15	199	32	8	0	0	4
KV-36FS120	CND	89	15	199	48	8	0	0	4
KV-36FS120	HAWAII	89	15	199	32	8	0	0	4
KV-36FS320	US	89	63	231	32	8	0	0	4
KV-36FS320	CND	89	63	231	48	8	0	0	4
KV-36FS320	HAWAII	89	63	231	32	8	0	0	4
KV-38FS120	L NORTH	81	15	199	128	24	0	32	68

4-6. A BOARD ADJUSTMENTS

H. Frequency (Free Run) Check

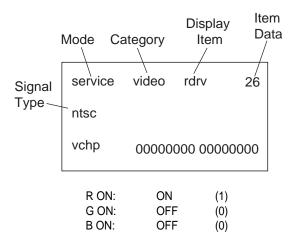
- 1. Input a TV mode (RF) with no signal.
- Connect a frequency counter to base of Q501 (TP-25 H. DRIVE) on the A Board.
- 3. Check H. Frequency for $15735 \pm 200 \text{ Hz}$.

V. Frequency (Free Run) Check

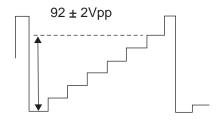
- 1. Select video 1 with no signal input.
- 2. Set the conditions for a standard setting.
- 3. Connect the frequency counter to TP-27 (V OUT) or CN501 pin (6) (V DY+) and ground on the A Board .
- 4. Check that V. Frequency shows 60 ± 4 Hz.

Drive (SCON)

- 1. Input a color-bar signal and set the level to 75%.
- 2. Set in Pro mode + PICTURE MAX.
- 3. Activate the Service Adjustment Mode.
- 4. Set GON and BON items. Using 3 and 6 set each to the following values. Leave RON set to "1".



- 5. Connect an oscilloscope probe to C Board, CN705 pin3 (KR).
- 6. Select SCON with 1 and 4.
- 7. Adjust the value of SCON with 3 and 6 for 92 ± 2 Vpp.



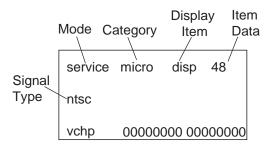
8. Reset GON and BON values to "1".

R ON: ON (1) G ON: ON (1) B ON: ON (1)

9. Press MUTING then ENTER to save into the memory.

Display Position Adjustment (DISP)

- 1. Input a color-bar signal.
- 2. Set to Service Adjustment Mode.
- 3. Select DISP with 1 and 4.
- 4. Adjust values of DISP with 3 and 6 to adjust characters to the center.
- 5. Press MUTING then ENTER to save into the memory.
- 6. Check to see if the text is displayed on the screen.

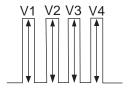


Sub Bright Adjustment (SBRT)

- 1. Input a monoscope signal.
- 2. Activate the Service Adjustment Mode.
- 3. Set the PICTURE and BRIGHTNESS to minimum.
- 4. Select the SBRT item with 11 and 41.
- 5. Adjust the values of SBRT with 3 and 6 to obtain a faintly visible 20 IRE mark, after that increase +3 steps.
- 6. Press MUTING then ENTER to save into the memory.

Sub Hue, Sub Color Adjustment (SHUE, SCOL)

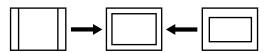
- 1. Input color-bar signal at 75%.
- 2. Activate the Service Adjustment Mode.
- 3. Set (PIC) to Max and (COL) to 50%.
- 4. Connect an oscilloscope probe to C Board, CN705 pin (4) (Blue Out).
- 5. Select the SHUE and SCOL item with $1 \ and 4$.
- 6. While showing the SHUE item, adjust the waveform with ☐ and ☐ until the second and third bars show the same level (V2 = V3 < 0.15Vp-p). Set Sub Hue -2 Step.
- 7. While showing the SCOL item, adjust the waveform with ③ and ⑥ until the first and fourth bars show the same level (V1 = V4 < 0.15Vp-p). Set Sub Col + 2 Step.



8. Press MUTING then ENTER to save into the memory.

V. Size Adjustment (VSIZ)

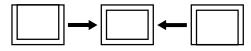
- 1. Input a crosshatch signal.
- 2. Activate the Service Adjustment Mode.
- 3. Select the VSIZ item with 1 and 4.
- 4. Adjust value of VSIZ with 3 and 6 for the best vertical size.
- 5. Press MUTING then ENTER to save into the memory.



V. Center Adjustment (VPOS)

Perform this adjustment after performing H. Frequency (Free Run) Check.

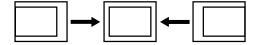
- 1. Input a crosshatch signal.
- 2. Activate the Service Adjustment Mode.
- 3. Select the VPOS item with $\boxed{1}$ and $\boxed{4}$.
- 4. Adjust value of VPOS with 3 and 6 for the best vertical center.
- 5. Press MUTING then ENTER to save into the memory.



H. Center Adjustment (HPOS)

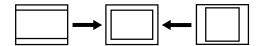
Perform this adjustment after performing H. Frequency (Free Run) Check.

- 1. Input a crosshatch signal.
- 2. Activate the Service Adjustment Mode.
- 3. Select the HPOS item with 11 and 41
- 4. Adjust the value of HPOS with and for the best horizontal center.
- 5. Press MUTING then ENTER to save into the memory.



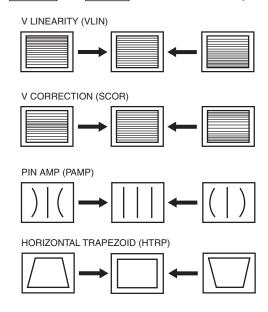
H. Size Adjustment (HSIZ)

- 1. Input a monoscope signal.
- 2. Activate the Service Adjustment Mode.
- 3. Select HSIZ with 1 and 4.
- 4. Adjust with 3 and 6 for the best horizontal size.
- 5. Press MUTING then ENTER to save into the memory.



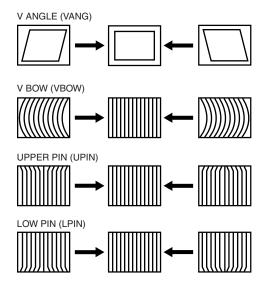
V. Linearity (VLIN), V. Correction (SCOR), PIN Amp (PAMP), and Horizontal Trapezoid (HTRP) Adjustments

- 1. Input a crosshatch signal.
- 2. Activate the Service Adjustment Mode.
- 3. Select VLIN, SCOR, PAMP, and HTRP with with 1 and 4.
- 4. Adjust with 3 and 6 for the best horizontal size.
- 5. Press MUTING then ENTER to save into the memory.



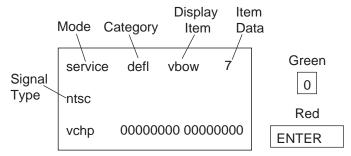
V. Angle (VANG), V. Bow (VBOW), Upper PIN (UPIN) and Low PIN (LPIN) Adjustments

- 1. Input a crosshatch signal.
- 2. Activate the Service Adjustment Mode.
- 3. Select VANG, VBOW, UPIN, and LPIN with $\boxed{1}$ and $\boxed{4}$.
- 4. Adjust with 3 and 6 for the best picture.
- 5. Press MUTING then ENTER to save into the memory.



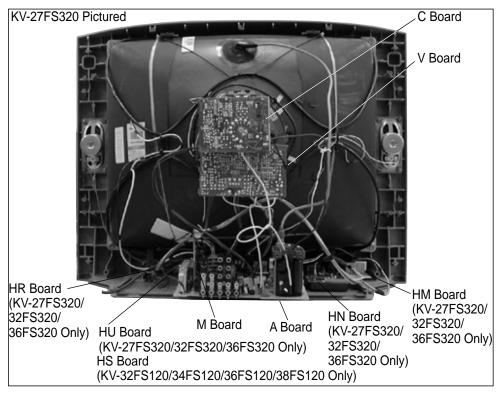
Service Adjustment Mode Memory

1. After completing all adjustments, press $\boxed{0}$ then $\boxed{\mathsf{ENTER}}$. Read From Memory



SECTION 5: DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



5-2. PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM INFORMATION

All capacitors are in μF unless otherwise noted. pF: $\mu \mu F$ 50WV or less are not indicated except for electrolytics and tantalums.

All electrolytics are in 50V unless otherwise specified.

All resistors are in ohms. k=1000, M=1000k

Indication of resistance, which does not have one for rating electrical power, is as follows: Pitch:5mm Rating electrical power:

¹/₄ W in resistance, ¹/₁₀ W and ¹/₈ W in chip resistance.

: nonflammable resistor.

 Δ : internal component.

: panel designation and adjustment for repair.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Readings are taken with a color-bar signal input.

Readings are taken with a 10M digital multimeter.

Voltages are DC with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production tolerances.

The components identified by shading and \triangle symbol are critical for safety. Replace only with part number specified.

The symbol indicates a fast operating fuse and is displayed on the component side of the board. Replace only with fuse of the same rating as marked.

All voltages are in V.

S: Measurement impossibillity.

: B-line.

(Actual measured value may be different).

: signal path. (RF)

Circled numbers are waveform references.

The components identified by

in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be necessary, replace only with the value originally used.

When replacing components identified by \square , make the necessary adjustments as indicated. If the results do not meet the specified value, change the component identified by \square and repeat the adjustment until the specified value is achieved.

(Refer to Section 3: Safety Related Adjustments on Page 27.)

When replacing the parts listed in the table below, it is important to perform the related adjustments.

Part Replaced (☑)	Adjustment (█)
C531, C532, D519, D520, D521, IC501, IC600, PH602, R529, R530, R531, R532, R533, R550, T503 (FBT), T504 (DFT)	HV HOLD-DOWN R530, R531

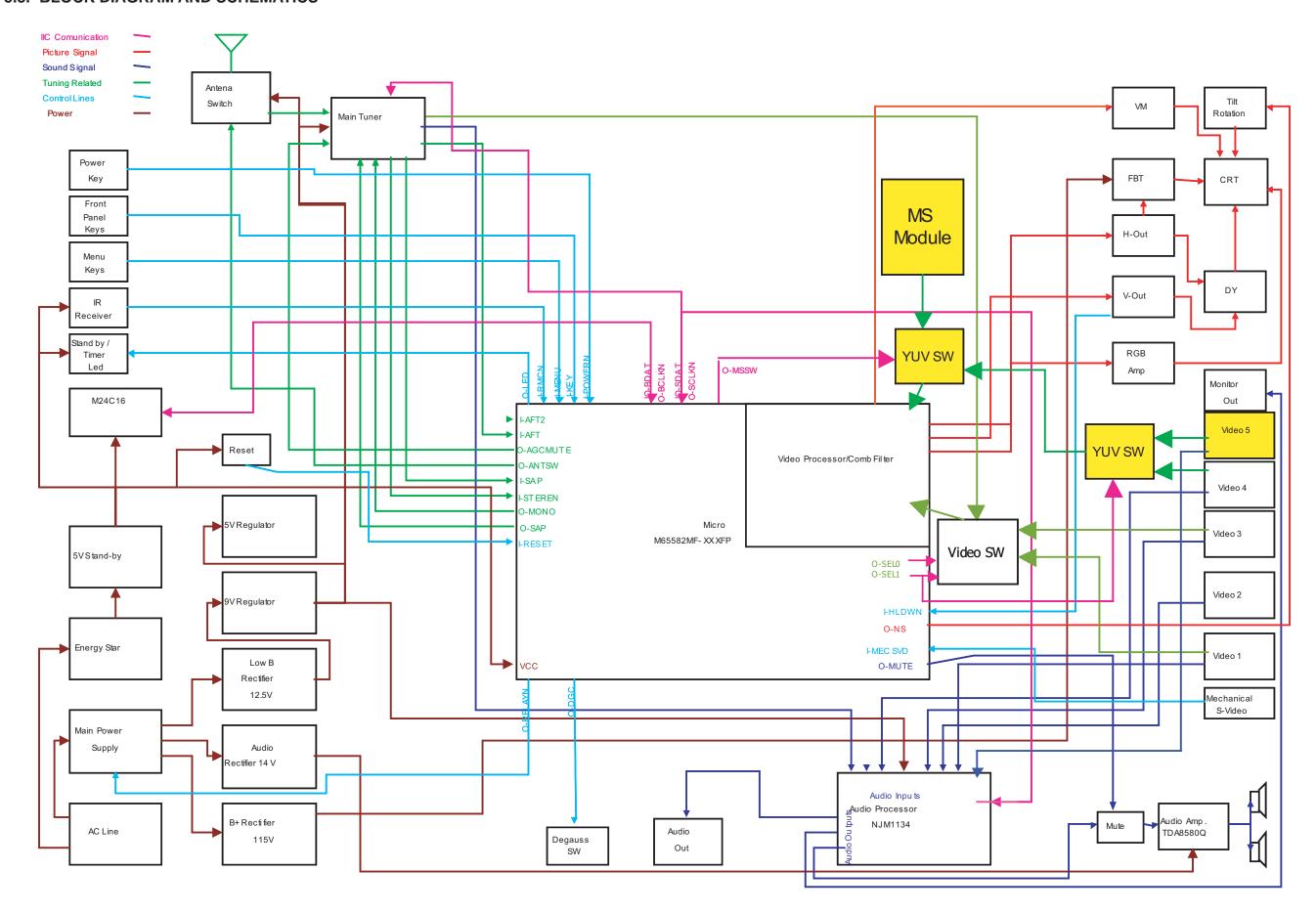
REFERENCE INFORMATION

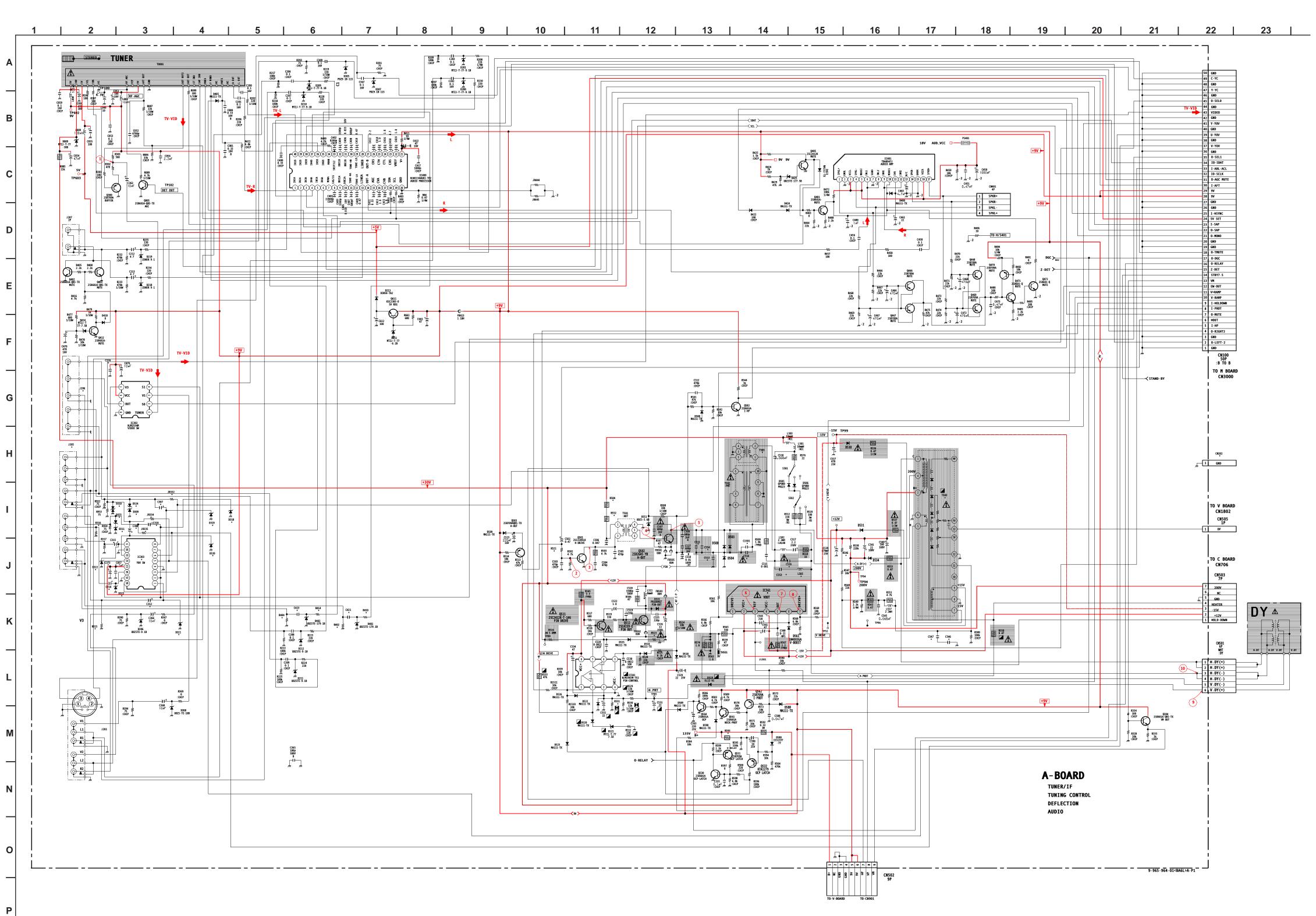
CAPACITOR RESISTOR **TANTALUM** : TA :RN METAL FILM : PS STYROL : RC SOLID · PP **POLYPROPYLENE** : FPRD NONFLAMMABLE CARBON : PT **MYLAR** : FUSE NONFLAMMABLE FUSIBLE : MPS **METALIZED POLYESTER** : RW NONFLAMMABLE WIREWOUND **METALIZED POLYPROPYLENE** : MPP : RS NONFLAMMABLE METAL OXIDE **BIPOLAR** : ALB : RB NONFLAMMABLE CEMENT : ALT HIGH TEMPERATURE **ADJUSTMENT RESISTOR** : **※ HIGH RIPPLE** : ALR

COIL

: LF-8L MICRO INDUCTOR

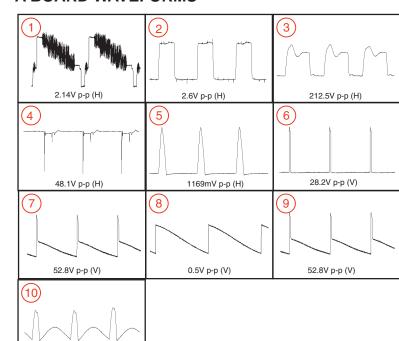
5.3. BLOCK DIAGRAM AND SCHEMATICS

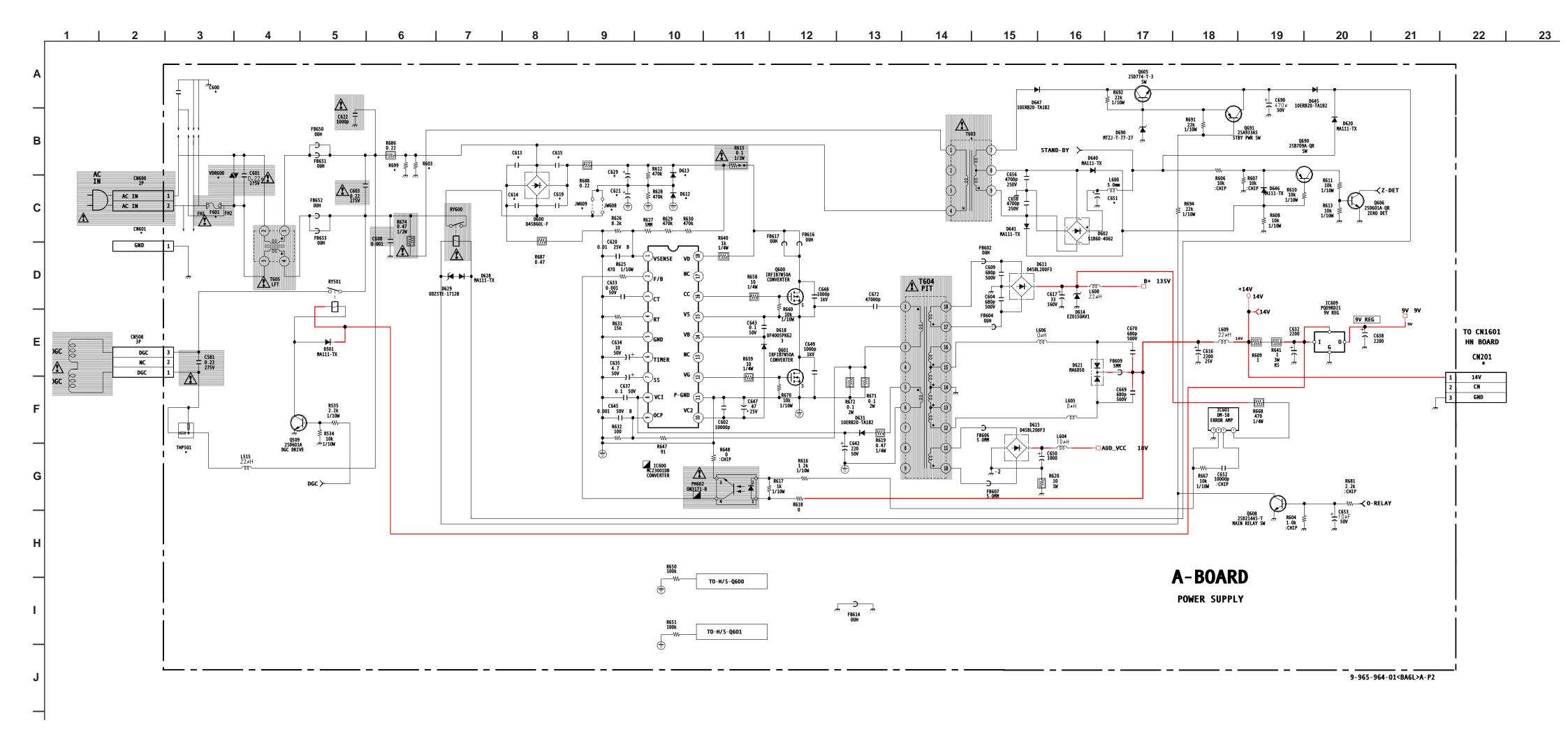




A BOARD WAVEFORMS

281.5V p-p (H)





A BOARD IC VOLTAGE LIST

IC	302	IC4	400	27	4.6	13	3.3	3	2.2
PIN	VOLT	PIN	VOLT	28	4.6	14	8.3	4	2.5
1	4.5	1	4.5	29	4.6	15	GND	5	GND
2	0.3	2	4.5	30	4.6	16	19.6	6	0.0
3	4.5	3	4.5	31	4.6	17	8.3	7	4.0
4	0.4	4	4.5	32	4.6	IC	501	8	17.2
5	4.5	5	4.5	33	4.6	PIN	VOLT	9	GND
6	9.0	6	4.5	34	4.6	1	-13.3	10	10.4
7	4.4	7	4.5	35	4.5	2	8.2	11	0.0
8	GND	8	4.5	36	4.5	3	7.2	12	4.6
IC:	303	9	4.5	37	4.5	4	-15.0	13	N/C
PIN	VOLT	10	4.5	38	4.5	5	2.3	14	163.6
1	4.5	11	4.5	39	4.5	6	2.5	15	153.5
2	4.0	12	4.5	40	4.5	7	-13.5	16	157.6
3	3.0	13	4.5	IC4	401	8	12.0	17	N/C
4	GND	14	4.5	PIN	VOLT	IC	561	18	340.0
5	4.0	15	0.6	1	8.3	PIN	VOLT	IC	601
6	4.0	16	1.7	2	GND	1	1.5	PIN	VOLT
7	0.0	17	1.7	3	19.6	2	12.0	1	133.7
8	4.5	18	4.7	4	8.3	3	-12.0	2	N/C
9	4.5	19	4.7	5	19.6	4	-15.0	3	2.5
10	GND	20	GND	6	3.2	5	0.3	4	11.3
11	4.5	21	9.0	7	0.0	6	14.2	5	GND
12	0.0	22	4.4	8	0.0	7	1.4	IC	609
13	9V	23	3.8	9	3.2	IC	600	PIN	VOLT
14	4.5	24	3.8	10	9.1	PIN	VOLT	I	14.0
15	GND	25	4.0	11	9.7	1	2.5	0	9.0
16	4.5	26	0.6	12	3.2	2	1.8	G	GND

All voltages are in V.

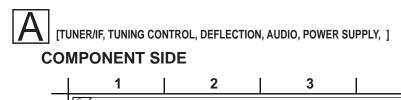
A BOARD TRANSISTOR VOLTAGE LIST

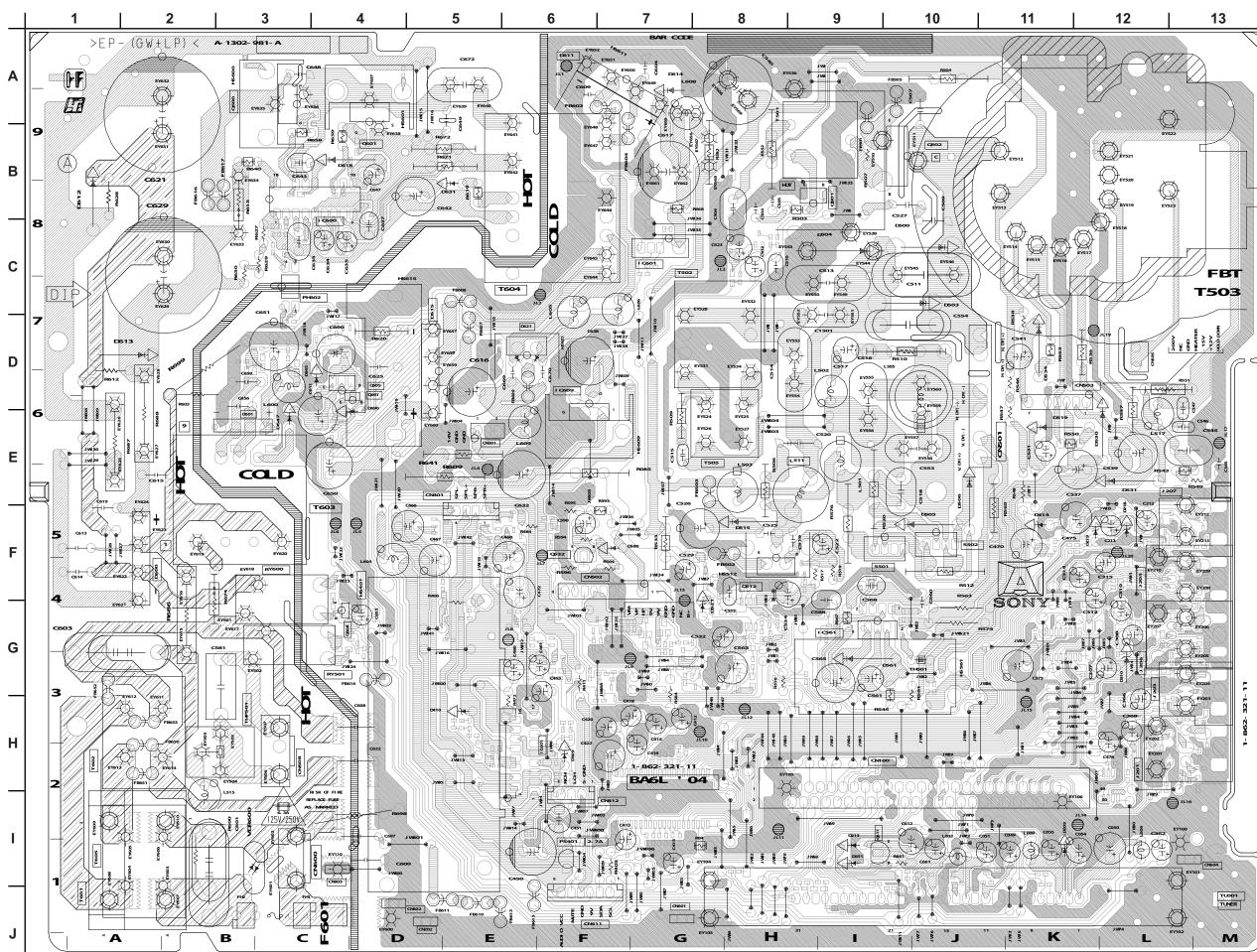
	В	С	Е		В	C	Е
Q005	0.1	4.9	GND	Q509	0.0	11.1	GND
Q300	4.6	GND	5.2	Q511	-13.5	-8.4	-15.0
Q304	5.0	9.0	4.4	Q512	-14.9	-2.0	-15.0
Q401	0.0	18.2	0.0	Q530	0.0	4.4	GND
Q402	0.0	0.0	GND	Q531	4.4	0.0	4.4
Q403	0.0	0.0	GND	Q532	133.6	0.0	133.8
Q405	0.7	0.0	GND	Q561	0.0	4.4	GND
Q412	0.7	0.0	GND	Q562	0.0	0.0	GND
Q466	4.8	0.0	4.8	Q564	0.0	0.0	GND
Q467	4.8	0.0	4.8	Q582	0.0	7.7	GND
Q468	4.8	0.0	4.8	Q583	9.0	-1.9	8.8
Q469	4.8	0.0	4.8	Q605	7.6	18.8	7.6
Q470	8.8	0.0	8.8	Q606	0.0	0.5	GND
Q471	0.0	8.9	0.0	Q608	0.0	6.7	GND
Q472	0.0	18.2	GND	Q611	5.6	9.0	5.0
Q501	0.0	123.6	GND	Q690	6.1	0.5	5.9
Q502	0.0	131.8	0.0	Q691	6.9	7.6	7.6

	D	G	S
Q600	313.0	160.0	156.0
Q601	155.0	4.9	0.0

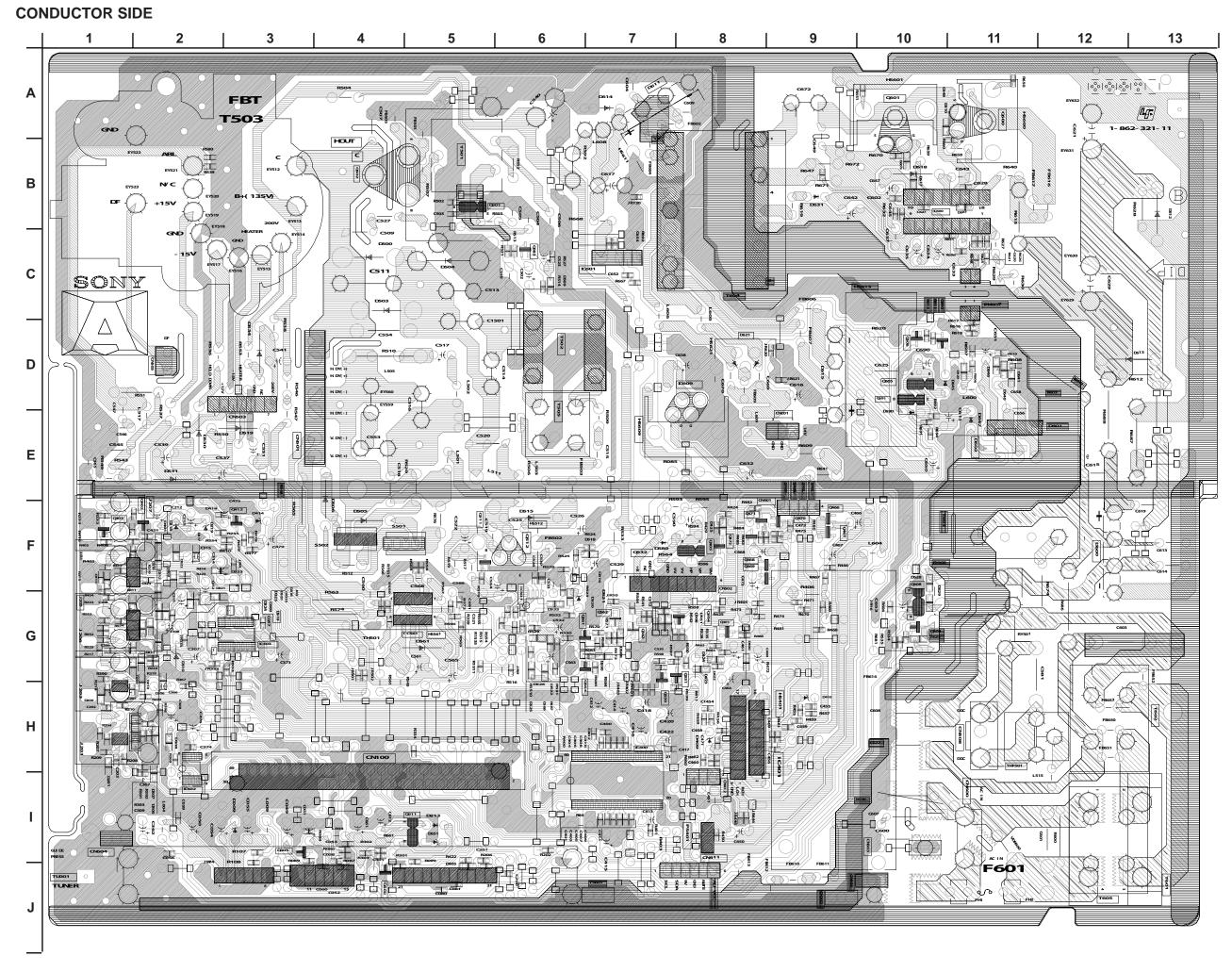
All voltages are in V.

KV-27FS320/32FS120/32FS320/34FS120/36FS320/38FS120





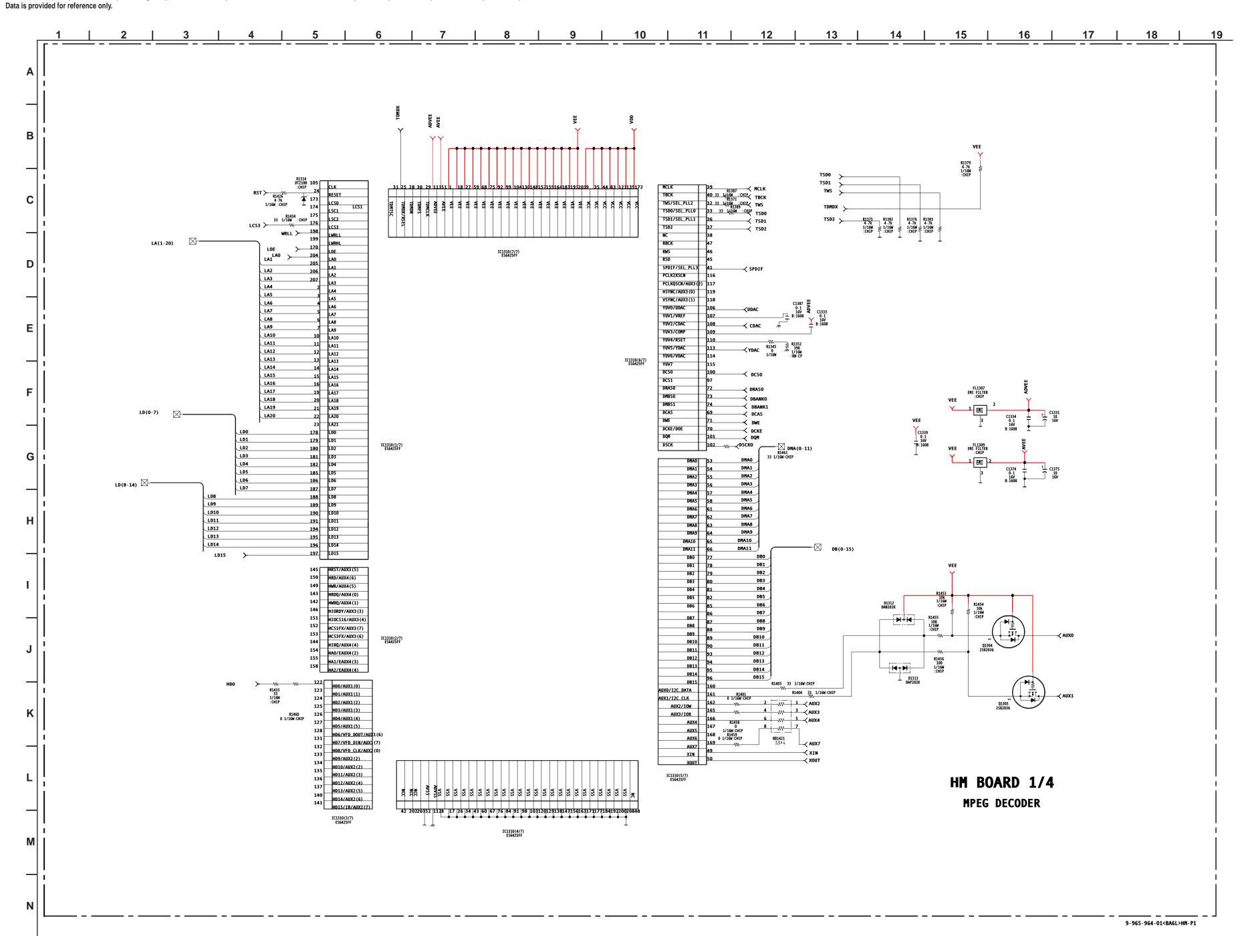
[TUNER/IF, TUNING CONTROL, DEFLECTION, AUDIO, POWER SUPPLY,]



A BOARD LOCATOR LIST (CONDUCTOR SIDE)

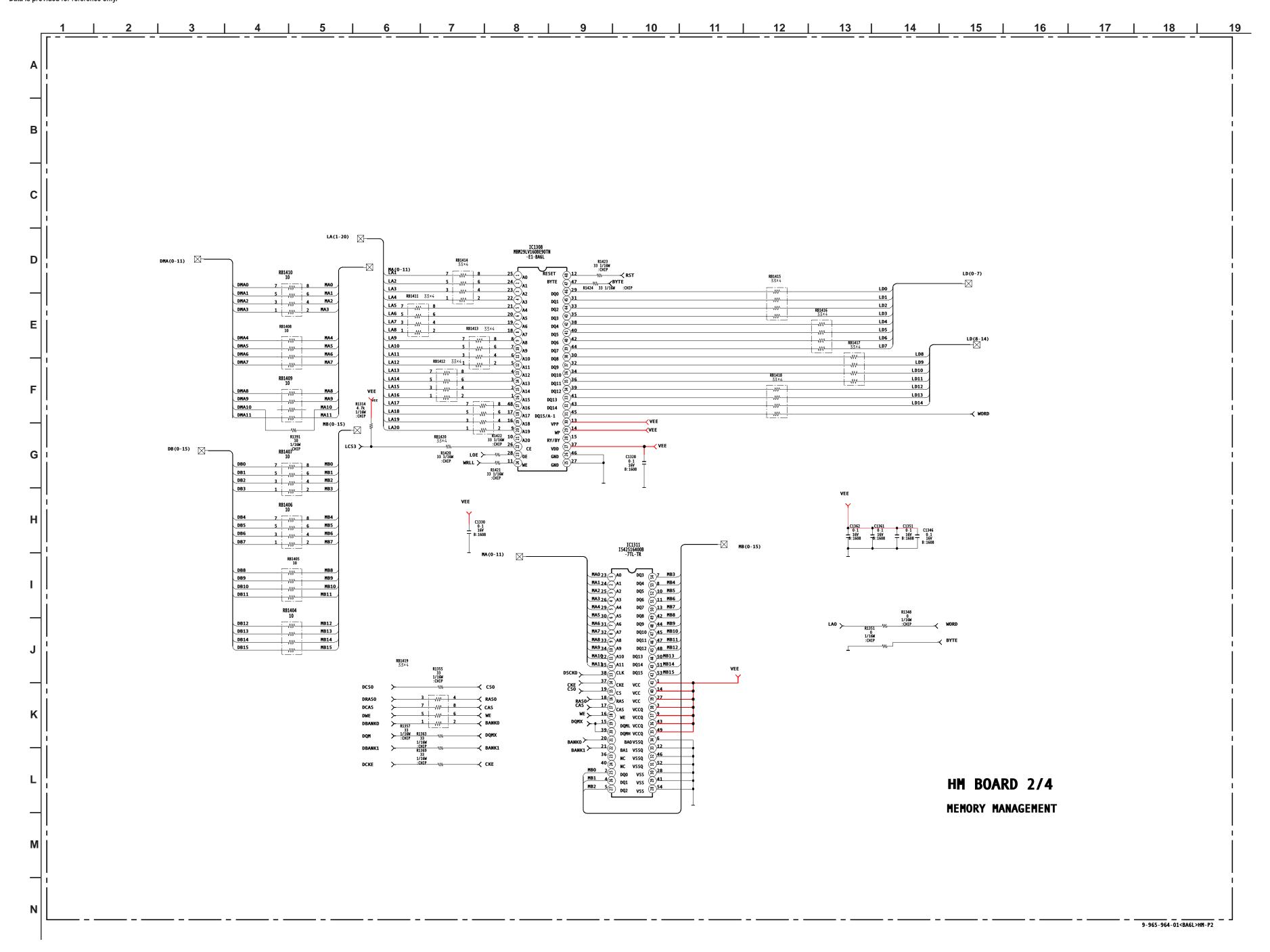
DIO	DE	DIC	DE	DIC	DE	DIC	DE	l l	С	TRANS	SISTOR	TRANS	ISTOR
D009	I-3	D400	G-8	D521	G-7	D620	D-11	IC302	I-2	Q005	I-3	Q530	G-7
D200	H-1	D401	F-2	D522	H-6	D621	D-8	IC303	G-3	Q300	J-4	Q531	G-8
D201	I-1	D402	F-2	D525	H-6	D628	F-10	IC400	I-7	Q304	G-8	Q532	F-7
D209	H-2	D405	J-5	D526	H-6	D629	G-10	IC401	I-9	Q401	G-8	Q561	G-6
D210	G-2	D414	F-3	D530	E-2	D631	B-9	IC501	G-6	Q402	F-2	Q562	G-7
D211	G-2	D418	F-2	D531	E-2	D640	D-11	IC561	G-5	Q403	F-1	Q564	G-6
D212	F-2	D422	G-8	D534	D-3	D641	D-11	IC600	C-10	Q405	F-8	Q582	G-7
D213	I-5	D423	G-8	D535	G-6	D645	D-11	IC601	C-7	Q412	F-3	Q583	C-6
D218	F-2	D424	G-8	D551	G-8	D646	D-11	IC609	D-8	Q466	F-9	Q600	A-10
D219	F-2	D425	F-8	D561	G-5	D647	E-11			Q467	F-9	Q601	A-11
D305	I - 2	D500	C-4	D580	F-7	D651	I-5			Q468	F-8	Q605	D-10
D306	H-2	D501	G-10	D588	G-7	D690	E-10			Q469	F-8	Q606	D-10
D307	I - 2	D503	C-4	D589	H-6			_		Q470	F-9	Q608	F-10
D308	H-2	D504	C-5	D590	G-7					Q471	F-8	Q611	I-5
D309	G-3	D505	F-4	D600	F-12	Ī				Q472	F-8	Q690	D-10
D310	G-2	D506	F-4	D602	E-11					Q501	B-6	Q691	D-10
D311	F-2	D508	G-8	D611	A-7	Ī				Q502	B-4		
D318	F-3	D509	G-6	D612	B-13	Ī				Q509	G-10	1	
D319	G-3	D515	F-6	D613	D-13	Ī				Q511	F-5	1	
D320	G-3	D516	F-7	D614	A-7	Ī				Q512	F-6	1	
D321	F-2	D518	F-6	D615	D-9							-	
D322	F-2	D519	E-3	D618	B-10								
D323	F-3	D520	G-7			=							
D324	G-3			-									
D325	G-3	1											

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.

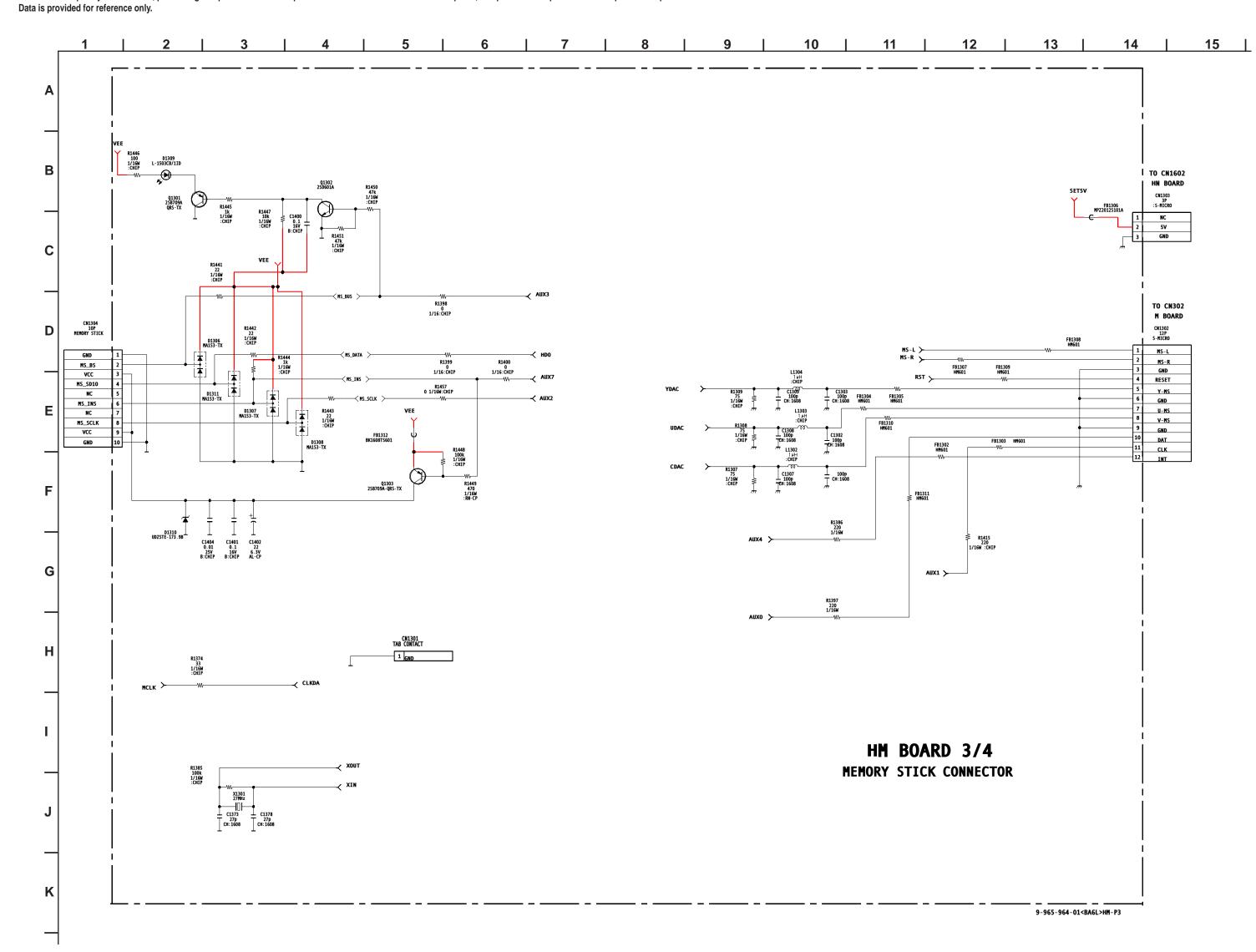


Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.

Data is provided for reference only.

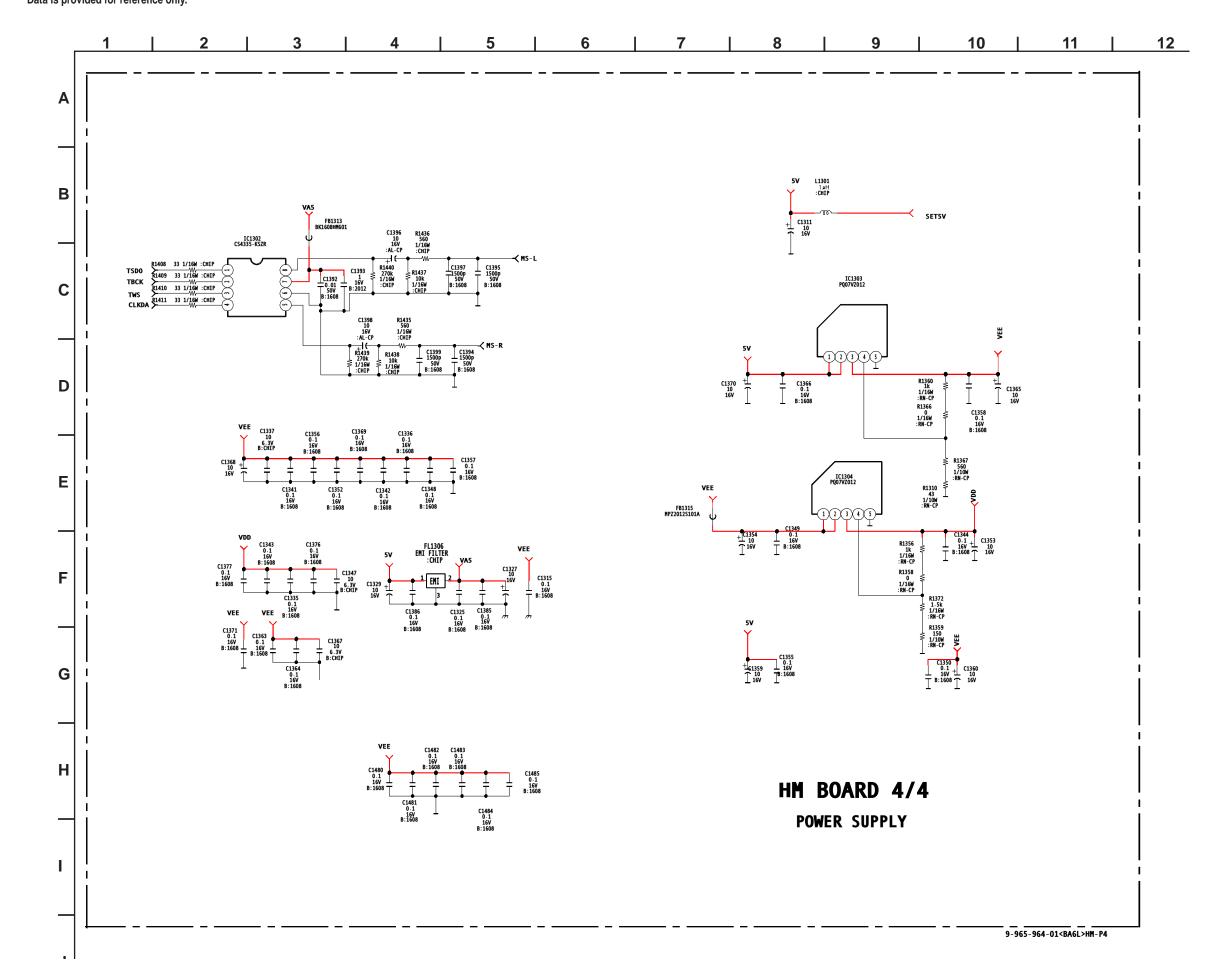


Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.

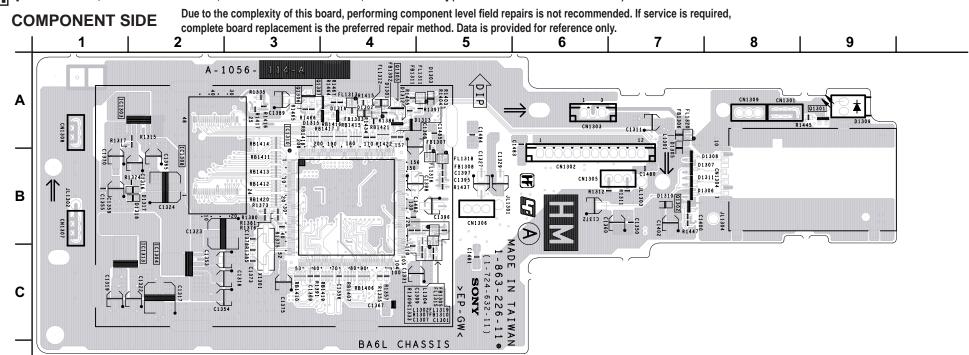


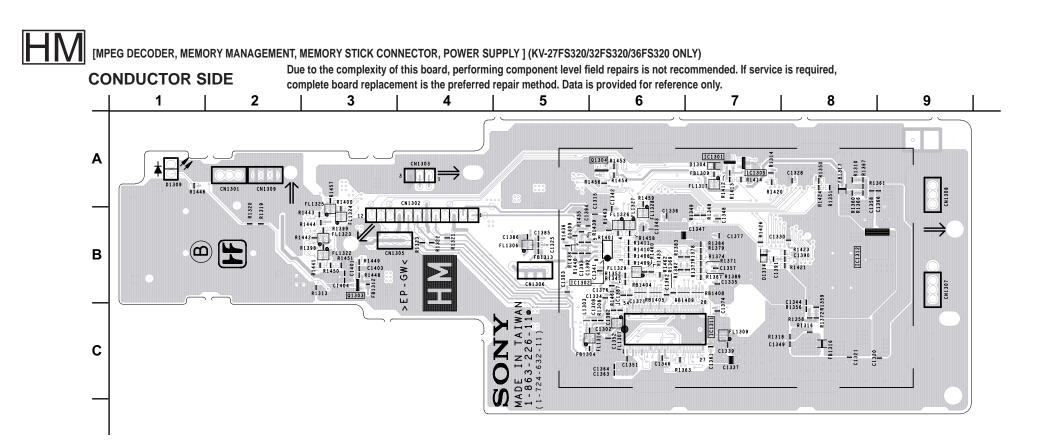
HM BOARD SCHEMATIC DIAGRAM (4 OF 4) (KV-27FS320/32FS320/36FS320 ONLY)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.









V BOARD IC VOLTAGE LIST

IC	301	11	N/C
PIN	VOLT	12	35
1	7.4	13	3.8
2	2.3	14	4.5
3	4.8	15	9.0
4	GND	16	4.6
5	6.3	17	4.6
6	4.5	18	4.5
7	9.0	19	N/C
8	5.8	20	4.8
9	4.6	21	GND
10	4.8	22	0.3

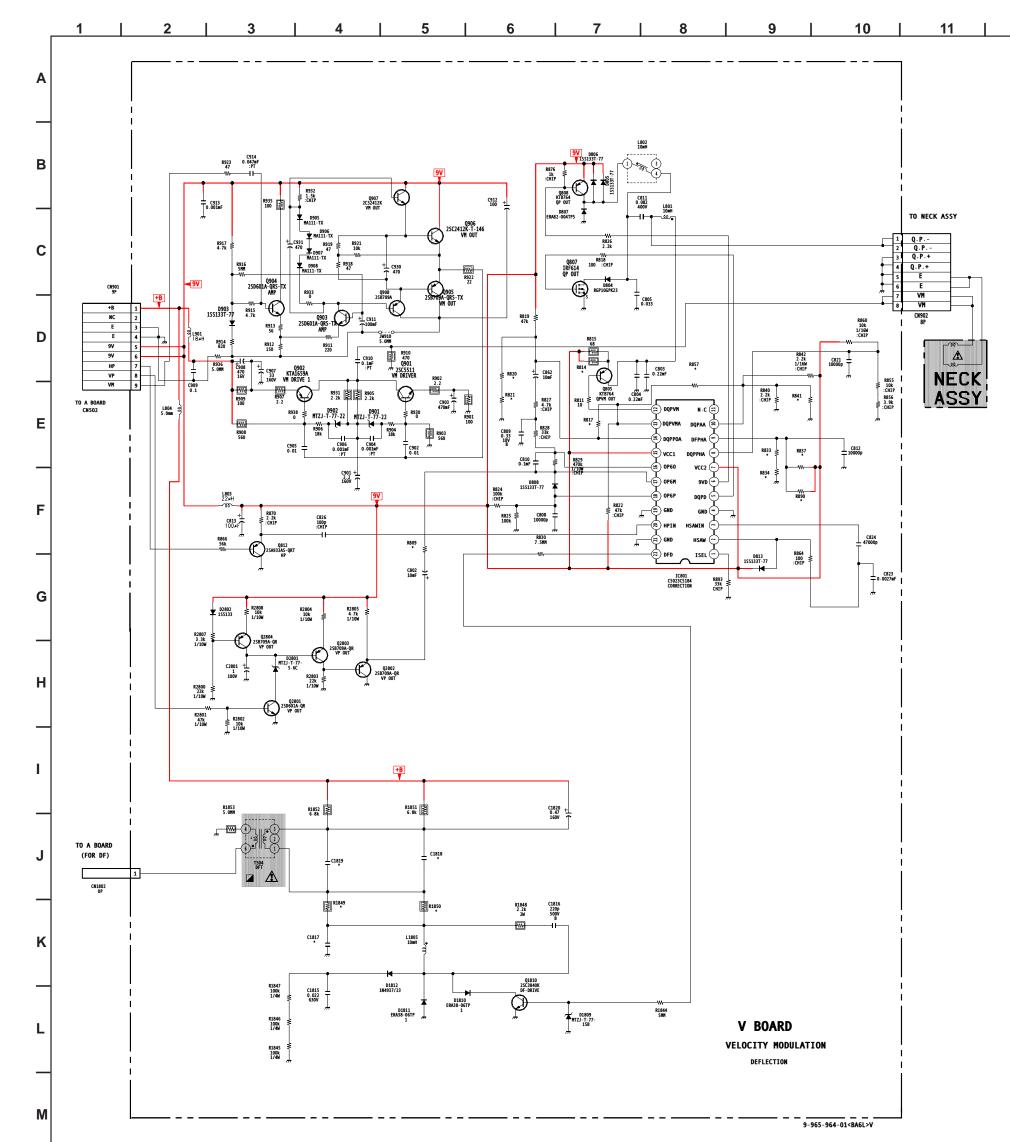
All voltages are in V.

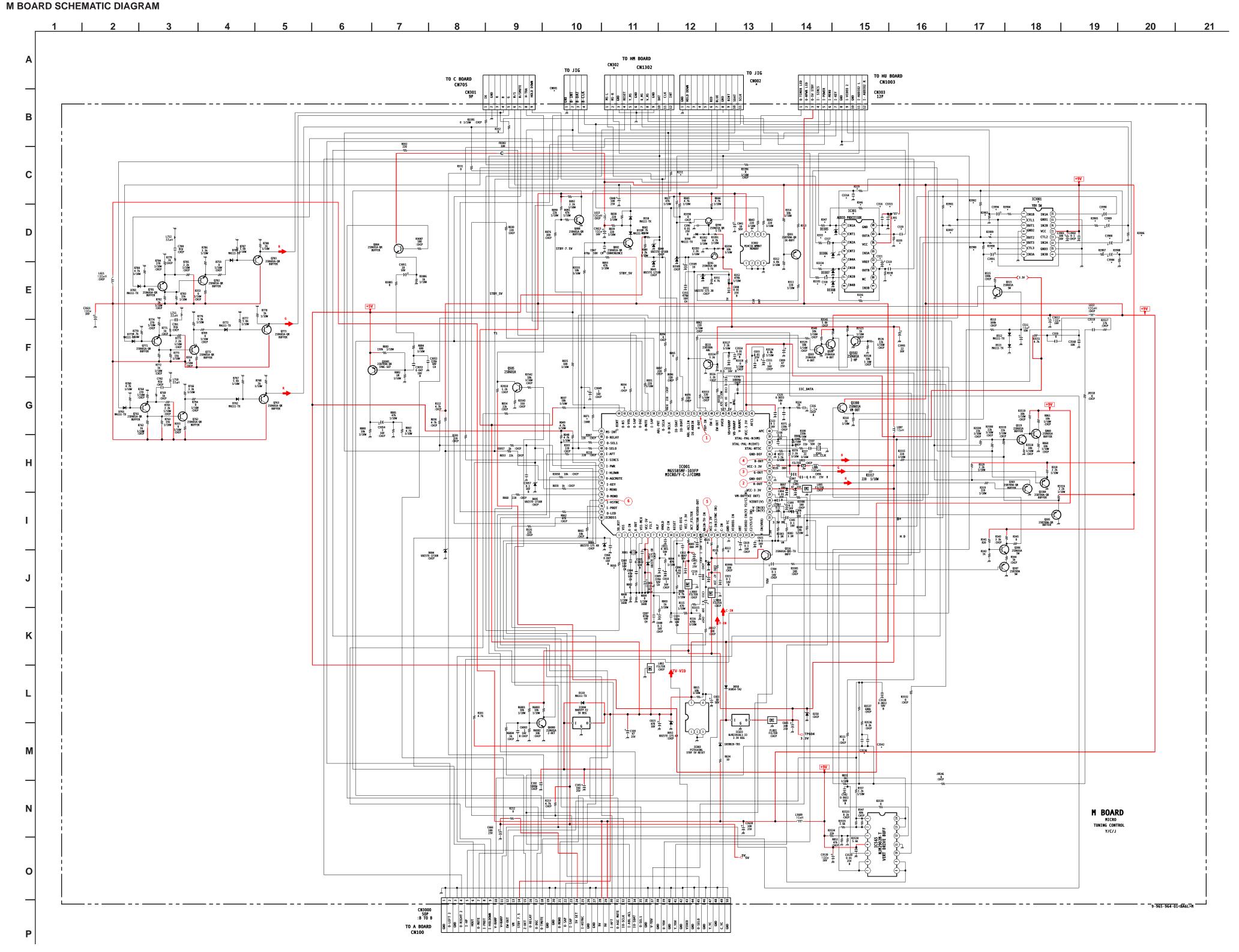
V BOARD TRANSISTOR VOLTAGE LIST

	В	С	E	
Q805	3.5	1.8	4.2	
Q808	8.6	4.3	9.0	
Q812	1.3	GND	2.0	
Q901	1.4	67.0	8.0	
Q902	132.9	67.0	133.4	
Q903	1.2	6.2	1.8	
Q904	1.2	8.8	1.8	
Q905	7.1	0.0	6.7	
Q906	7.4	9.0	7.1	
Q907	7.4	9.0	8.1	
Q908	6.9	0.0	6.2	
Q1810	0.0	59.7	GND	
Q2801	0	3.1	GND	
Q2802	0	GND	4.1	
Q2803	6.6	0	7.2	
Q2804	7.4	6.6	8.0	
		<u>-</u>		
	D	G	S	
Q807	9.5	6.3	GND	

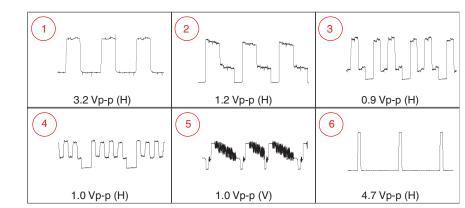
All voltages are in V.

V BOARD SCHEMATIC DIAGRAM





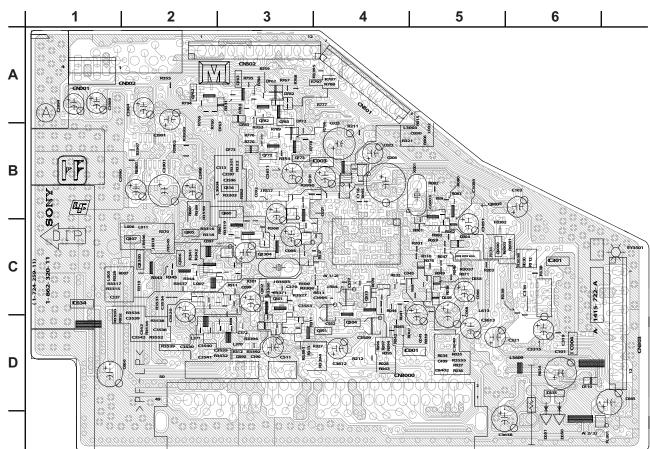
M BOARD WAVEFORMS



M BOARD IC VOLTAGE LIST

IC	001	45	1.6	IC	003	IC	633
PIN	VOLT	46	2.3	PIN	VOLT	PIN	VOL.
1	5.0	47	1.0	1	N/C	ı	9.0
2	GND	48	1.5	2	GND	G	GND
3	2.2	49	0.5	3	GND	0	3.3
4	2.2	50	1.2	4	5.0	IC3	001
5	GND	51	2.0	5	5.0	PIN	VOL:
6	5.0	52	1.5	IC	004	1	4.5
7	0.0	53	4.8	PIN	VOLT	2	4.0
8	2.0	54	4.8	I	7.5	3	3.0
9	0.3	55	4.8	0	5.0	4	GNE
10	2.1	56	4.8	G	GND	5	4.0
11	5.0	57	0.0	IC	301	6	4.0
12	GND	58	5.2	PIN	VOLT	7	0.0
13	3.3	59	0.0	1	4.5	8	4.5
14	3.1	60	0.0	2	0.0	9	4.5
15	1.0	61	0.0	3	4.5	10	GNE
16	1.5	62	0.0	4	GND	11	4.5
17	3.3	63	1.4	5	N/C	12	0.0
18	0.5	64	4.9	6	4.5	13	9V
19	1.1	65	4.9	7	4.5	14	4.5
20	GND	66	0.0	8	N/C	15	GNI
21	0.5	67	0.1	9	N/C	16	4.5
22	1.7	68	0.1	10	N/C	All voltage	es are in \
23	0.5	69	2.4	11	4.5		
24	0.5	70	5.0	12	4.5		
25	0.5	71	5.0	13	N/C		
26	0.0	72	0.1	14	9.0		
27	0.0	73	0.0	15	4.5		
28	2.1	74	5.0	16	GND		
29	2.7	75	5.0	IC	565		
30	3.3	76	5.0	PIN	VOLT		
31	2.9	77	0.1	1	3.4		
32	GND	78	0.0	2	3.4		
33	2.8	79	4.9	3	2.1		
34	3.3	80	4.9	4	9.0		
35	2.9	IC	002	5	1.0		
36	GND	PIN	VOLT	6	1.0		
37	1.8	1	GND	7	1.0		
38	0.0	2	GND	8	1.6		
39	0.1	3	GND	9	1.6		
40	2.0	4	GND	10	1.6		
41	1.6	5	4.8	11	GND		
42	3.3	6	4.8	12	1.6		
43	0.5	7	GND	13	1.6		
44	1.6	8	5.0	14	1.6		

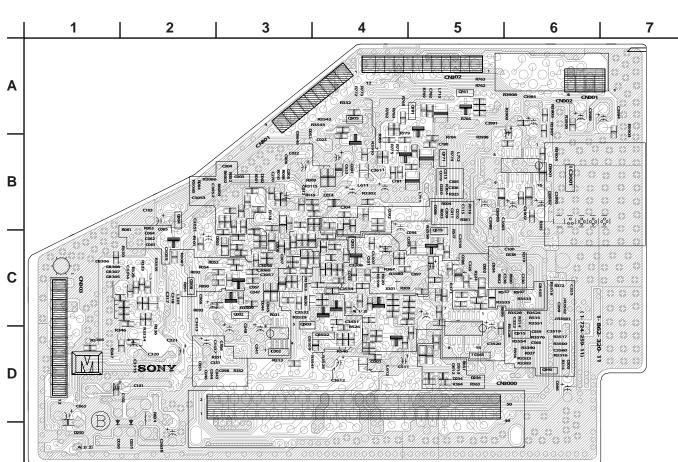




M BOARD LOCATOR LIST (COMPONENT SIDE)

DIC	DE		С	TRANS	SISTOR
D004	C-5	IC001	D-5	Q301	C-3
D110	D-6	IC003	B-4	Q305	C-2
D390	D-3	IC004	D-6	Q306	C-2
D558	C-5	IC301	C-6	Q307	C-2
D559	C-5	IC633	D-6	Q316	B-3
D762	A-3			Q391	D-4
D763	B-3			Q504	D-4
D772	B-3			Q762	A-2
D773	B-3			Q763	A-3
D782	A-2			Q772	B-3
D783	B-3			Q773	B-3
D3402	D-5			Q782	B-3
	-	<u>-</u> '		Q783	B-3
				Q860	C-3
				Q3005	B-5
				Q3300	C-2
				Q3304	C-3
				Q6000	C-5





M BOARD LOCATOR LIST (CONDUCTOR SIDE)

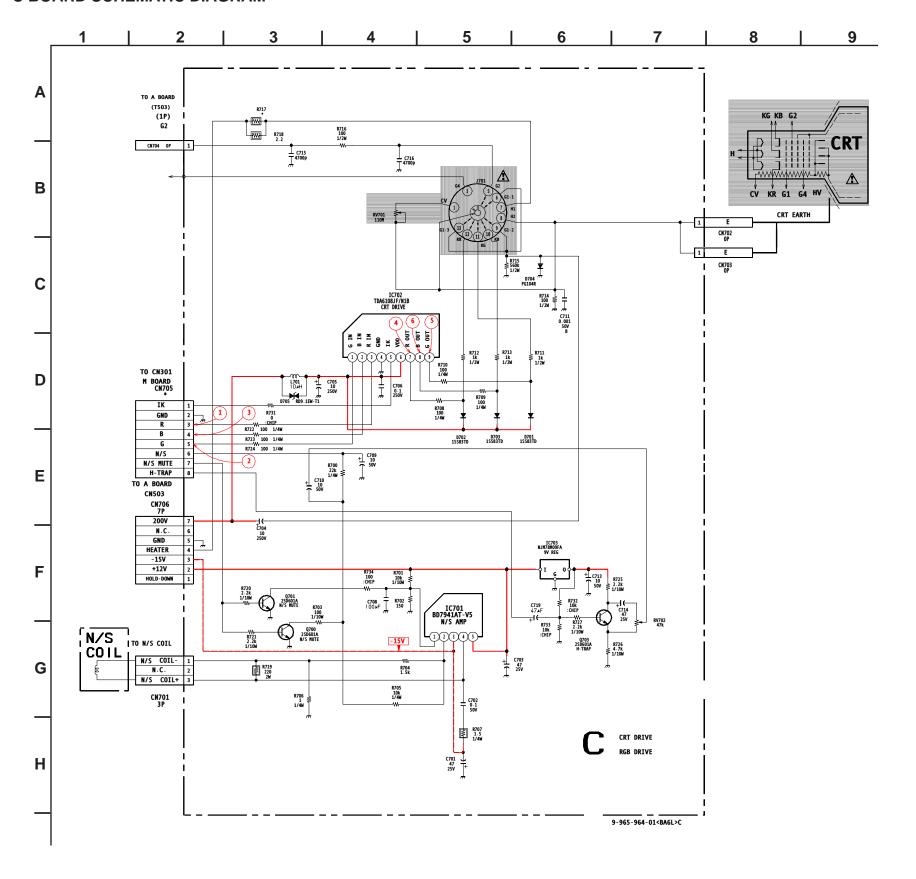
			•		,
DIODE		10	С	TRANS	SISTOR
D002	B-3	IC002	D-3	Q002	C-3
D005	C-3	IC565	D-5	Q004	B-2
D006	C-3			Q008	C-3
D044	C-3			Q303	C-4
D045	C-3			Q390	D-6
D050	E-2			Q503	D-4
D051	E-2			Q505	B-4
D052	B-4			Q515	D-6
D250	E-1			Q519	C-5
D304	C-5			Q533	D-6
D351	D-3			Q761	A-5
D512	D-5			Q771	B-5
D513	D-5			Q781	A-5
D3305	C-2			Q3502	D-4
D3306	C-2			-	-
D3307	C-2				
D3308	C-2				
D3509	D-4				

M BOARD TRANSISTOR VOLTAGE LIST

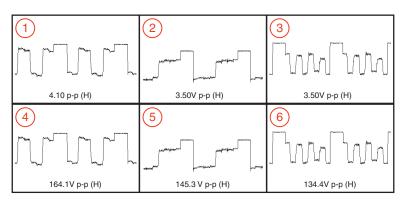
	В	С	E		В	С	E
Q002	0.0	2.0	GND	Q533	1.5	GND	1.5
Q004	3.8	9.0	4.4	Q761	2.2	3.8	2.9
Q008	0.0	2.6	GND	Q762	3.1	9.0	3.8
Q301	3.6	2.1	3.6	Q763	2.0	9.0	2.6
Q303	3.6	GND	2.8	Q771	2.2	3.8	2.9
Q305	3.6	GND	3.0	Q772	3.2	9.0	3.8
Q306	4.8	5.3	4.2	Q773	2.0	9.0	2.6
Q307	0.0	GND	0.0	Q781	2.2	3.9	2.9
Q316	0.0	3.3	0.0	Q782	3.3	9.0	3.9
Q390	0.8	1.5	1.9	Q783	2.1	9.0	2.7
Q391	0.6	3.3	1.5	Q860	3.9	5.7	3.3
Q503	0.0	0.4	GND	Q3005	5.1	0.8	5.0
Q504	0.0	2.4	GND	Q3300	1.8	9.0	2.4
Q505	1.1	8.8	1.7	Q3304	3.6	GND	2.9
Q515	0.0	0.0	GND	Q3502	0.6	0	GND
Q519	0.0	3.8	GND	Q6000	0.6	1.2	GND

voltages are in V.

C BOARD SCHEMATIC DIAGRAM



C BOARD WAVEFORMS



C BOARD IC VOLTAGE LIST

IC	701	IC7	703
PIN	VOLT	PIN	VOLT
1	0.3	I	12.0
2	0.3	0	9.0
3	-13.0	G	GND
4	0.5	All volta	ages are in
5	12.0		
IC	702		
PIN	VOLT		
1	2.2		
2	2.2		
3	2.2		
4	GND		
5	5.0		
6	200.0		
7	139.7		
8	142.0		
9	138.6		
		-	

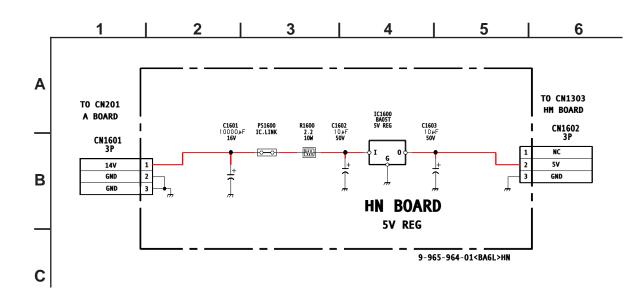
C BOARD TRANSISTOR VOLTAGE LIST

	В	С	Е
Q700	0.3	8.0	GND
Q701	0.3	0.3	GND
Q703	6.0	6.5	5.5

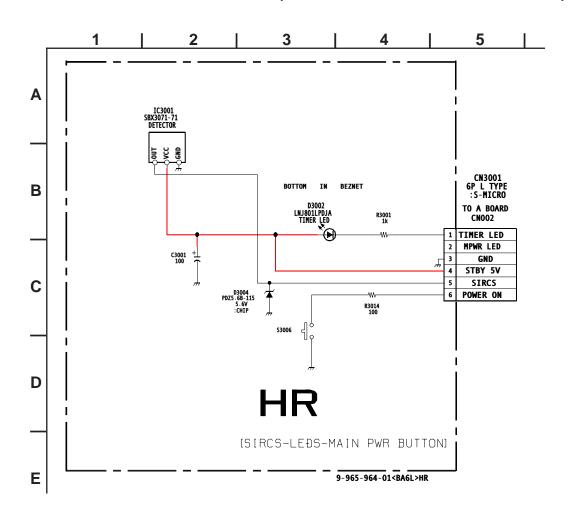
All voltages are in V.

KV-27FS320/32FS120/32FS320/34FS120/36FS320/38FS120

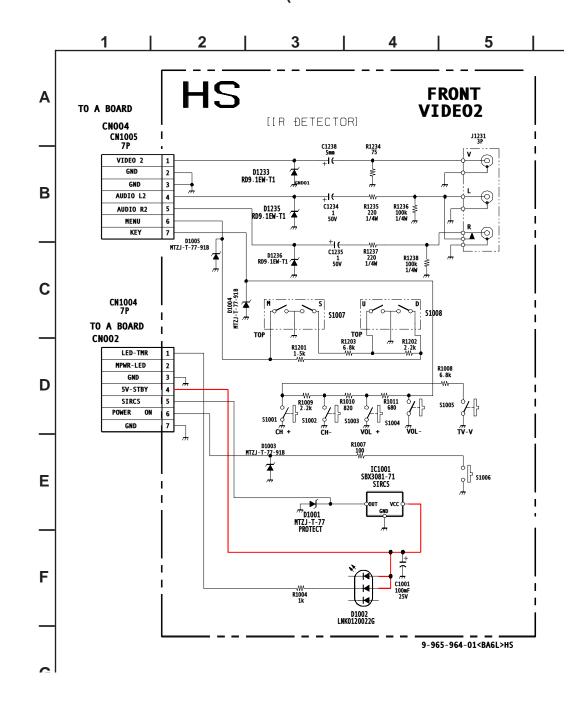
HN BOARD SCHEMATIC DIAGRAM (KV-27FS320/32FS320/36FS320 ONLY)

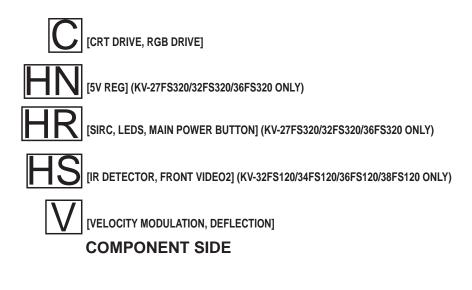


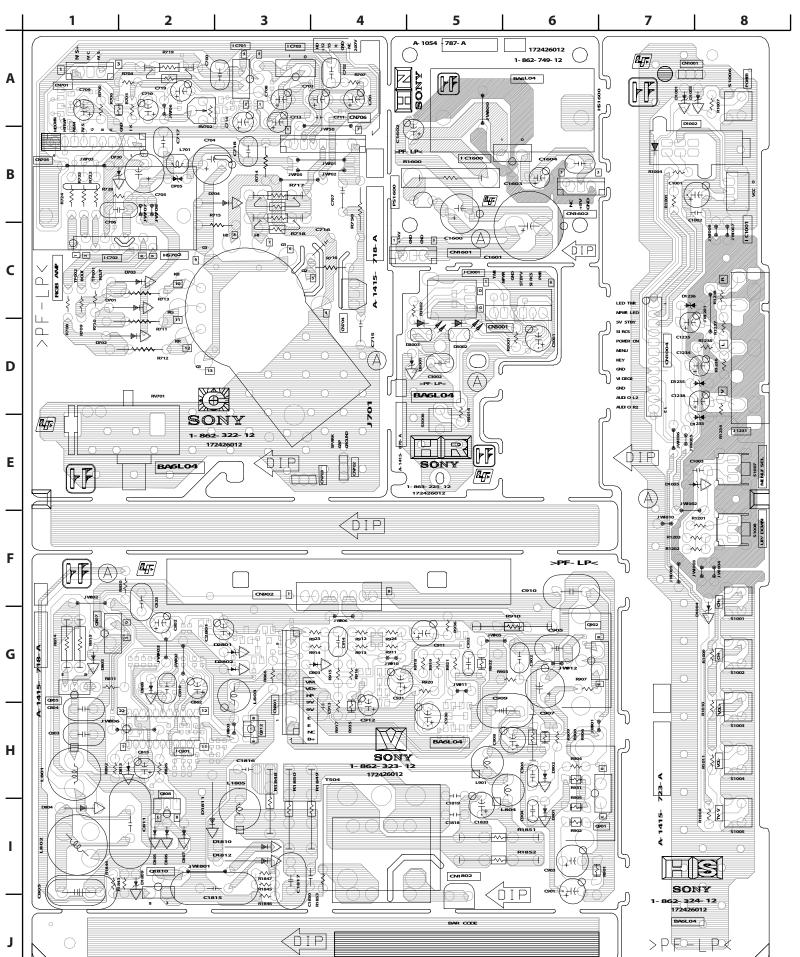
HR BOARD SCHEMATIC DIAGRAM (KV-27FS320/32FS320/36FS320 ONLY)

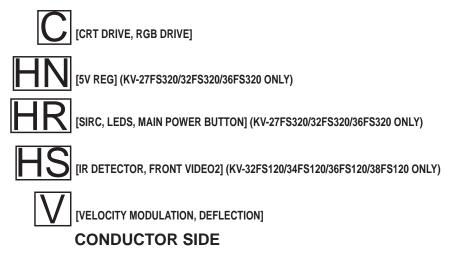


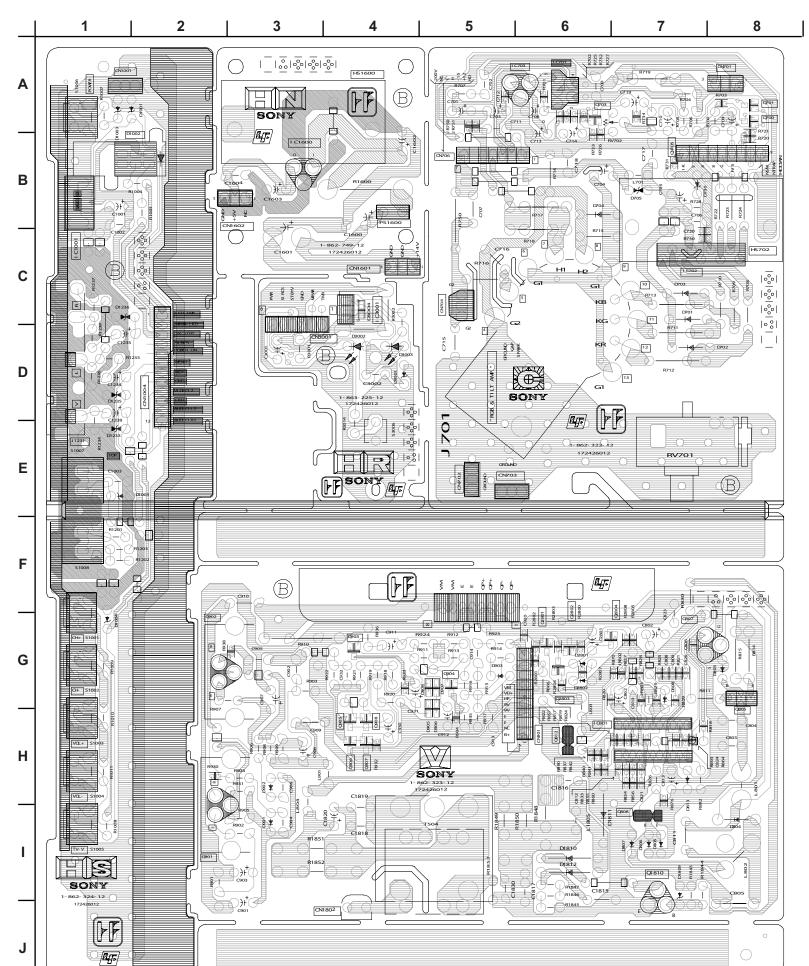
HS BOARD SCHEMATIC DIAGRAM (KV-32FS120/34FS120/36FS120/38FS120 ONLY)



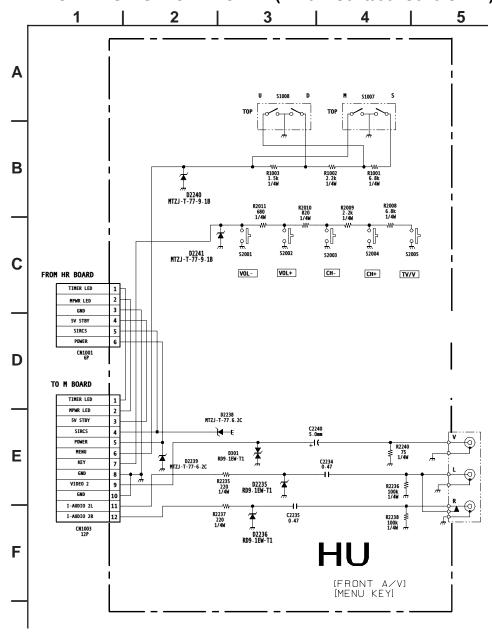






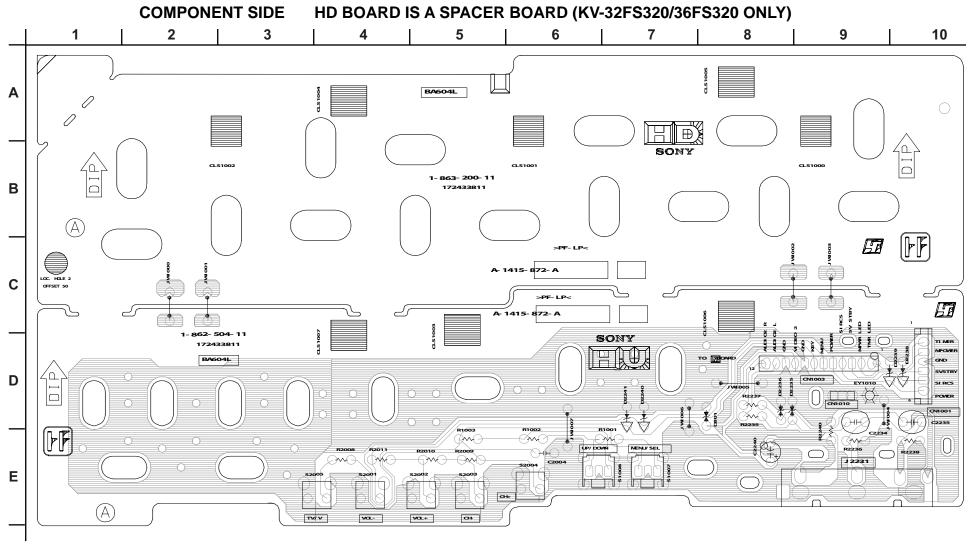


HU/HD BOARD SCHEMATIC DIAGRAM (KV-27FS320/32FS320/36FS320 ONLY) HD BOARD IS A SPACER BOARD (KV-32FS320/36FS320 ONLY)



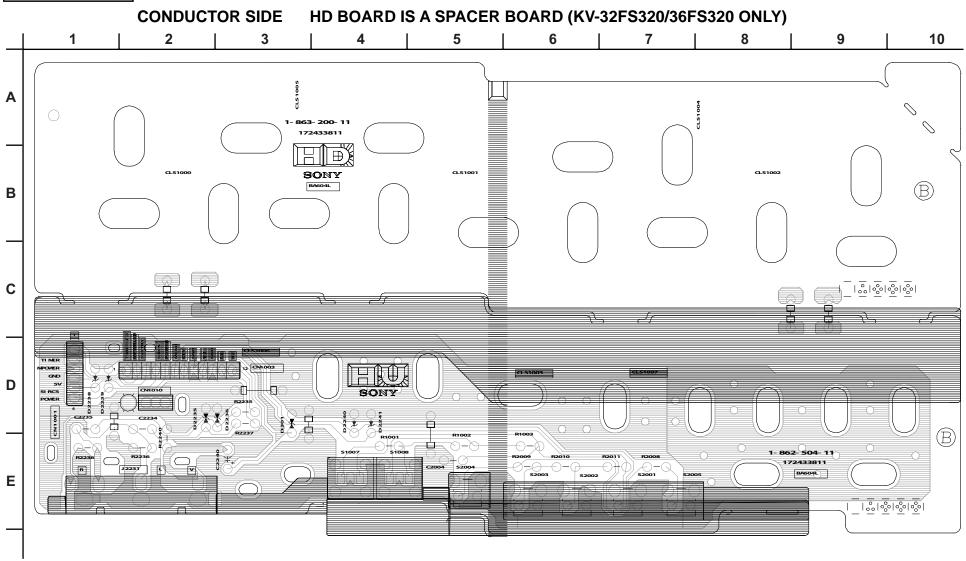


[FRONT A/V, MENU KEY] (KV-27FS320/32FS320/36FS320 ONLY)





[FRONT A/V, MENU KEY] (KV-27FS320/32FS320/36FS320 ONLY)



5-4. SEMICONDUCTORS

		•		
2SB709A-QRS-TX 2SD601A-QRS-TX	2SB734-T-34 2SC3209LK-TP	2SA1309A-QRSTA 2SC3311A-QRSTA 2SD2144S-TP-UVW	2SC3840K	2SA1837
BEE	E C B	E C B	E C B	B C E
2SA1091O-TPE2	IRF614	2SK2663	2SC4793	2SD2578-YB
E C B		G D S		123
ERA38-06TP1 ERA82-004TP5 1SS133T-77 D1NS0R-TA MTZJ-T-77-12C MTZJ-T-77-13B MTZJ-T-77-33B MTZJ-T-77-39	RU-1P ERC06-15S EGP20DPKG23 MTZJ-T-77-5.1C MTZJ-T-77-5.6C MTZJ-T-77-7.5A MTZJ-T-77-10B MTZJ-T-77-30D RGP10-GPKG3 RGP02-17PKG23 RGP15GPKG23	ERB44-06TP1 1SS83TD GP08DPKG23 RGP10GPKG23 RU4AM-T3 CATHODE	RD9.1EW-T1	MA111-TX UDZ-TE-17.5.1B UDZ-TE-17.91B ANODE CATHODE
D2SB60A-F04	DAP202K-T-146	D4SB60L-F		
	2 1 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3			
D5LC20U	TF541M			
MARKING SIDE VIEW CATHODE ANODE CATHODE	CATHODE GATE			

SECTION 6: EXPLODED VIEWS

Components not identified by a part number or description are not stocked because they are seldom required for routine service.

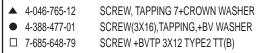
The component parts of an assembly are indicated by the reference numbers in the far right column of the parts list and within the dotted lines of the diagram.

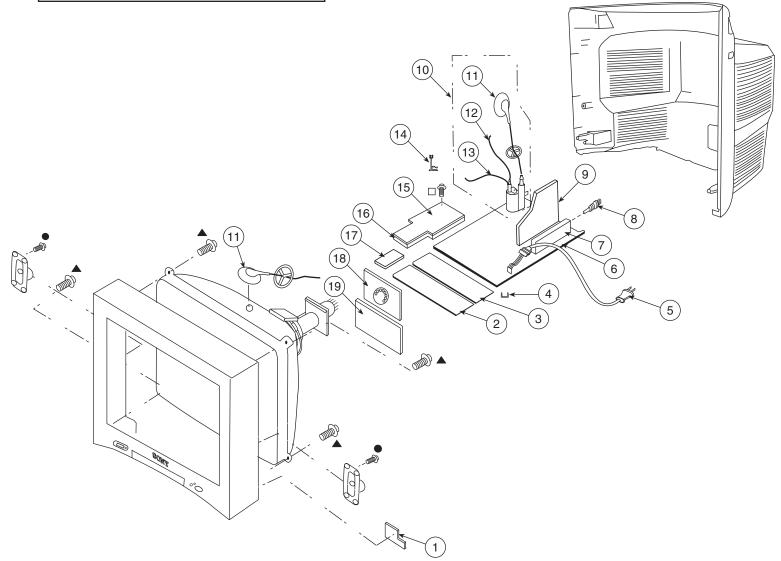
* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

NOTE: The components identified by shading and \triangle mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque 🛆 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-1. CHASSIS (KV-27FS320/32FS320/36FS320 ONLY)





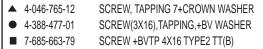
R	EF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
*	1	A-1415-870-A	HR BOARD, MOUNTED	\triangle	10	1-453-310-11	FBT ASSY NX-4521//X4J4	1 [11-13]
*	2	A-1415-872-A	HU BOARD, MOUNTED				(KV-27FS320 ONLY)	
*	3	A-1415-873-A	HD BOARD, MOUNTED		10	1-453-338-41	FBT ASSY NX-4600//X4C	[11-13]
*	4	4-076-951-01	HINGE, PWB				(KV-32FS320/36FS320 OI	• •
\triangle	. 5	1-824-069-11	CORD, AC POWER (WITH CONNECTOR)				·	,
				\triangle	11	1-251-715-22	CAP ASSY, HIGH-VOLTAG	GE
*	6	A-1057-457-A	A BOARD, COMPLETE	\triangle	12	1-900-800-82	WIRE ASSY, FOCUS	
			(KV-27FS320 ONLY)	\triangle	13	1-900-803-22	WIRE ASSY, G2 LEAD	
			e leads associated with the FBT on the A board					
			and must be ordered separately. (See 11-13)		14	4-089-469-11	STANDOFF, HV	
*	6	A-1058-449-A	A BOARD, COMPLETE				(KV-36FS320 ONLY)	
			(KV-32FS320/36FS320 ONLY)	*	15	A-1056-114-A	HM BOARD, MOUNTED	
			e leads associated with the FBT on the A board	*	16	4-102-416-01	BRACKET, HM	
		are not included	and must be ordered separately. (See 11-13)	*	17	A-1054-787-A	HN BOARD, MOUNTED	
٨	_			_				
\triangle		8-598-593-50	TUNER, FSS BTF-WA421	*	18	A-1057-459-A	C (VAR) BOARD, MOUNT	ED
\triangle	. 8	1-766-374-11	PLUG, F-PIN				(KV-27FS320 ONLY)	
		1 1057 150 1	MANAS BOARD MOUNTED	*	18	A-1415-717-A	C (VAR) BOARD, MOUNT	
*	9	A-1057-456-A	M (VAR) BOARD, MOUNTED				(KV-32FS320/36FS320 OI	•
		1 1050 110 1	(KV-27FS320 ONLY)	*	19	A-1057-460-A	V (VAR) BOARD, MOUNT	ED
*	9	A-1056-113-A	M (VAR) BOARD, MOUNTED				(KV-27FS320 ONLY)	
		A 4004 F00 A	(KV-32FS320 ONLY)	*	19	A-1415-719-A	V (VAR) BOARD, MOUNT	
•	9	A-1061-529-A	M (VAR) BOARD, MOUNTED				(KV-32FS320/36FS320 OI	NLY)
			(KV-36FS320 ONLY)					
				•				

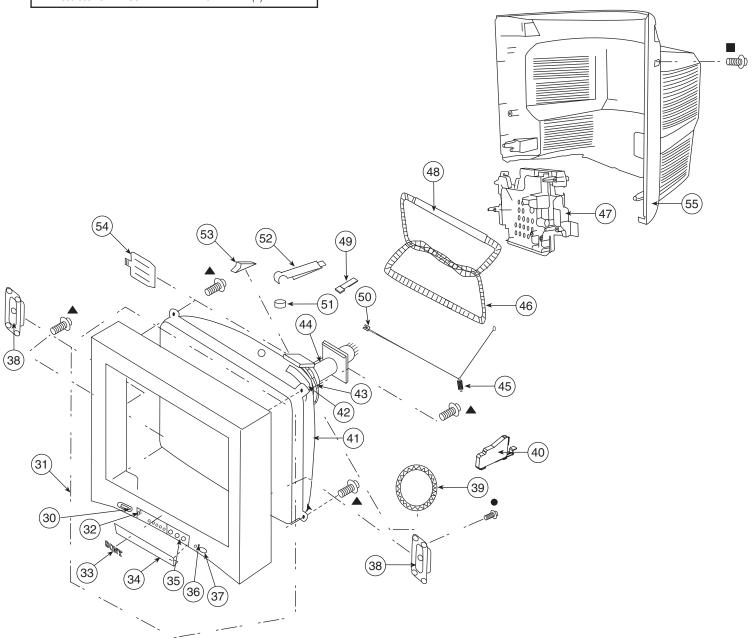
KV-27FS320/32FS120/32FS320/34FS120/36FS320/38FS120

NOTE: The components identified by shading and \triangle mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque 🗥 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-2. PICTURE TUBE (KV-27FS320/32FS320/36FS320 ONLY)





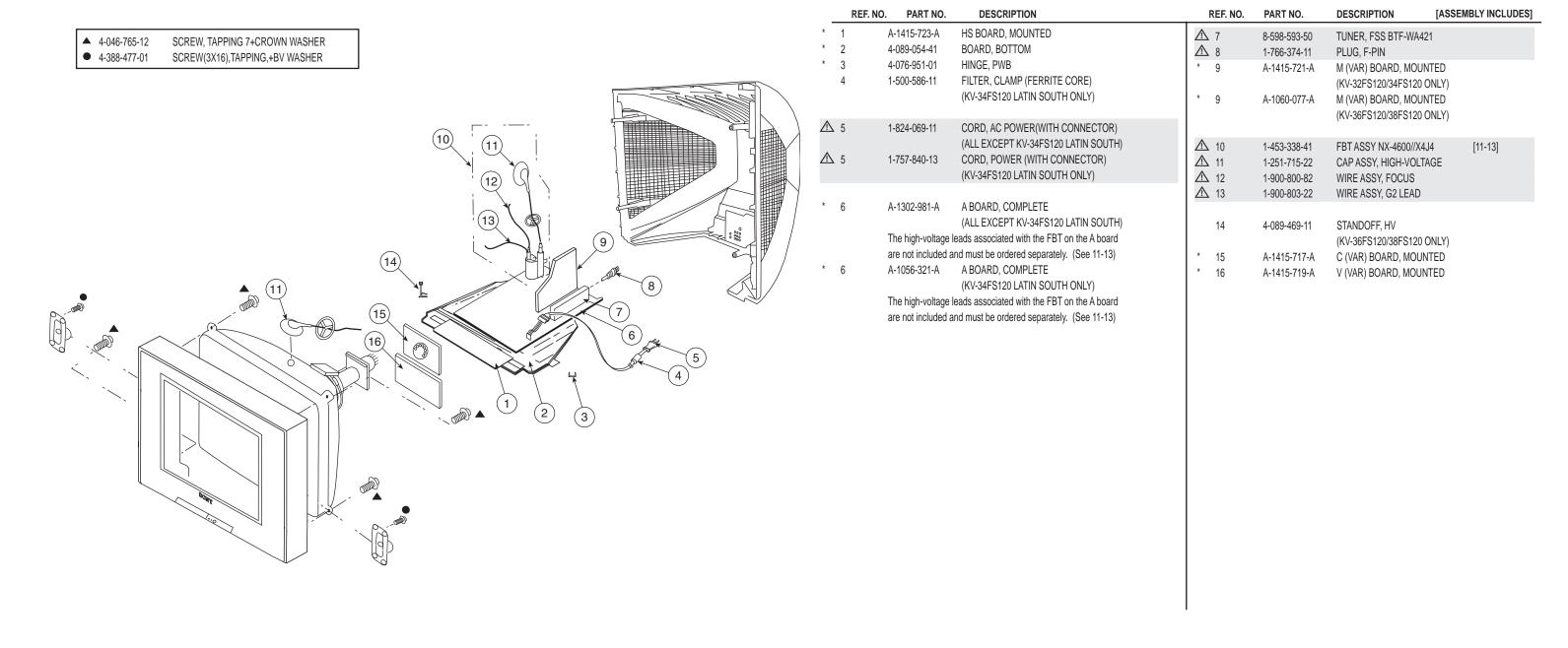
30	RE	F. NO.	PART NO.	DESCRIPTION [ASSEMBLY INCLUDES]		REF. NO.	PART NO.	DESCRIPTION
(IN-2275320 ONLY) 31		30	4-102-420-01	GUIDE, LIGHT (MS)		45	4-082-641-01	SPRING, 45MM
31		31	X-2021-481-1	BEZNET ASSY [32-37]				(KV-32FS320/36FS320 ONLY)
R(X-32FS220 ONLY) A				(KV-27FS320 ONLY)	\triangle	46	1-419-156-21	COIL, DEGAUSSING
31		31	X-2021-599-1	BEZNET ASSY [32-37]				(KV-27FS320 ONLY)
(KV-36FS320 ONLY) 22				(KV-32FS320 ONLY)	\triangle	46	1-428-988-31	DEGAUSSING COIL (31 INCH 120V)
32		31	X-2021-359-1	BEZNET ASSY [32-37]				(KV-32FS320 ONLY)
32				(KV-36FS320 ONLY)	\triangle	46	1-456-011-21	COIL, DEGAUSSING
33								(KV-36FS320 ONLY)
34		32	4-087-374-01	SPRING, DOOR				
35		33	4-046-160-41	EMBLEM, SONY NO.9	*	47	4-087-877-51	TERMINAL, BRACKET
36		34	4-087-375-61	DOOR, CONTROL		48	4-100-433-01	TUBE, DGC (A)
37		35	4-087-376-21	LABEL, FRONT TERMINAL				(KV-32FS320 ONLY)
38 1-825-513-11 LOUDSPEAKER (6X12CM) △ 39 1-452-896-611 COIL, NA ROTATION (RT-200) (KV-27FS320/32FS320 ONLY) △ 39 1-452-896-61 COIL, NA ROTATION (RT-200) (KV-36FS320 ONLY) 40 4-086-875-02 SUPPORTER, CRT (KV-36FS320 ONLY) △ 41 8-735-082-05 CRT 29RSN(SDP) M6BLNH050X (KV-27FS320 ONLY) △ 41 8-735-080-05 CRT 34RSN(SDP) A80LPD50X (KV-37FS320 ONLY) △ 41 8-735-090-05 CRT 34RSN(SDP) A80LPD50X (KV-36FS320 ONLY) △ 41 8-735-090-05 CRT 38RSN(FOR SOUTH CHINA) A90LPW80X (KV-36FS320 ONLY) △ 41 8-735-094-05 CRT 38RSN(FOR SOUTH CHINA) A90LPW80X (KV-36FS320 US & CND ONLY) △ 41 8-735-094-05 CRT 38RSN(FOR SOUTH CHINA) A90LPW80X (KV-36FS320 ONLY) △ 41 8-735-094-05 CRT 38RSN(FOR SOUTH CHINA) A90LPW80X (KV-36FS320 ONLY) △ 41 8-735-094-05 CRT 38RSN(FOR SOUTH CHINA) A90LPW80X (KV-36FS320 ONLY) △ 41 8-735-094-05 CRT 38RSN(FOR SOUTH CHINA) A90LPW80X (KV-36FS320 ONLY) △ 41 8-735-094-05 CRT 38RSN(FOR SOUTH CHINA) A90LPW80X (KV-36FS320 ONLY) △ 41 8-735-094-05 CRT 38RSN(FOR SOUTH CHINA) A90LPW80X (KV-36FS320 ONLY) △ 41 8-735-094-05 CRT 38RSN(FOR SOUTH CHINA) A90LPW80X (KV-36FS320 ONLY) △ 41 8-735-094-05 CRT 38RSN(FOR SOUTH CHINA) A90LPW80X (KV-36FS320 ONLY) △ 41 8-735-094-05 CRT 38RSN(FOR SOUTH CHINA) A90LPW80X (KV-36FS320 ONLY) △ 41 8-735-094-05 CRT 38RSN(FOR SOUTH CHINA) A90LPW80X (KV-36FS320 ONLY) △ 42 4-088-879-01 CUSHION, 36 CRT SUPPORTER (KV-36FS320 ONLY) △ 43 8-451-494-41 DY Y29RSA-V (KV-37FS320 ONLY) △ 43 8-451-494-41 DY Y29RSA-V (KV-37FS320 ONLY) △ 43 8-451-494-41 DY Y38RSA-V (KV-37FS320 ONLY) △ 44 8-453-011-11 NECK ASSEMBLY NA299-M (KV-37FS320 ONLY) △ 44 8-453-011-11 NECK ASSEMBLY NA299-M (KV-37FS320 ONLY) △ 44 8-453-011-11 NECK ASSEMBLY NA299-M (KV-32FS320 ONLY) △ 44 8-453-007-41 NECK ASSEMBLY NA299-M (KV-32FS320 ONLY) △ 44 8-453-007-41 NECK ASSEMBLY NA324-M4 (KV-32FS320 ONLY)		36	4-087-156-01	GUIDE, LIGHT		48	4-098-344-01	TUBE, DGC (B)
38 1-825-513-11 LOUDSPEAKER (6X12CM) △ 39 1-452-896-61 COIL, NA ROTATION (RT-200) (KV-27FS320/32FS320 ONLY) △ 39 1-452-896-61 COIL, NA ROTATION (RT-200) (KV-36FS320 ONLY) 40 4-086-875-02 SUPPORTER, CRT (KV-36FS320 ONLY) 41 8-735-082-05 CRT 29RSN(SDP) M88LNH050X (KV-27FS320 ONLY) △ 41 8-735-086-05 CRT 39RSN(SDP) M88LNH050X (KV-32FS320 ONLY) △ 41 8-735-090-05 CRT 39RSN(SDP) ABOLPD50X (KV-32FS320 ONLY) △ 41 8-735-090-05 CRT 39RSN(SDP) ABOLPD50X (KV-32FS320 ONLY) △ 41 8-735-090-05 CRT 39RSN(DP) ABOLPD50X (KV-36FS320 ONLY) △ 41 8-735-090-05 CRT 39RSN(DP) ABOLPD50X (KV-36FS320 ONLY) △ 41 8-735-090-05 CRT 39RSN(DP) ABOLPD80X (KV-36FS320 ONLY) △ 42 4-085-895-05 HOLDER, DGC (KV-36FS320 ONLY) △ 43 8-451-490-41 DY Y89RSA-V (KV-36FS320 ONLY) △ 43 8-451-490-41 DY Y89RSA-V (KV-37FS320 ONLY) △ 43 8-451-490-41 DY Y89RSA-V (KV-37FS320 ONLY) △ 43 8-451-490-41 DY Y89RSA-V (KV-36FS320 ONLY) △ 44 8-453-011-11 NECK ASSEMBLY NA299-M (KV-27FS320 ONLY) △ 44 8-453-011-11 NECK ASSEMBLY NA324-M4 (KV-32FS320 ONLY) △ 44 8-453-007-41 NECK ASSEMBLY NA324-M4 (KV-32FS320 ONLY)		37	4-087-150-41	BUTTON, POWER				(KV-36FS320 ONLY)
▲ 39 1-452-896-11 COIL, NA ROTATION (RT-200) (KV-27FS320)3FS320 ONLY) 49 4-085-128-01 (RV-36FS320 ONLY) ▲ 39 1-452-896-61 COIL, NA ROTATION (RT-200) (KV-36FS320 ONLY) 50 4-082-640-01 HOOK, GROUND WIRE (KV-36FS320 ONLY) 40 4-086-875-02 SUPPORTER, CRT (KV-36FS320 ONLY) 51 1-452-895-11 MAGNET, LANDING (KV-27FS320 ONLY) ★ 41 8-735-082-05 CRT 29RSIN(SDP) M68LNH050X (KV-27FS320 ONLY) 52 4-062-970-12 CLIP (29RSIN), DGC (KV-27FS320 ONLY) ★ 41 8-735-080-05 CRT 38RSIN(SDP) A80LPD50X (KV-32FS320 ONLY) 52 4-065-895-12 HOLDER, DGC (KV-36FS320 ONLY) ★ 41 8-735-080-05 CRT 38RSIN(SDP) A80LPD50X (KV-36FS320 ONLY) 52 4-065-895-05 HOLDER, DGC (KV-36FS320 ONLY) ★ 41 8-735-080-05 CRT 38RSIN/SDP A80LPD50X (KV-36FS320 HAWAII ONLY) 52 4-065-995-05 HOLDER, DGC (KV-36FS320 ONLY) ★ 41 8-735-048-05 CRT 38RSIN A90LPW80X (KV-36FS320 US & CND ONLY) 53 4-053-005-01 SPACER, DY (KV-27FS320) SPACER, DY (KV-27FS320) SPACER, DY (KV-27FS320 ONLY) ★ 42 4-088-879-01 CUSHION, 36 CRT SUPPORTER (KV-27FS320 ONLY) 54 4-081-170-01 PLATE, TLH CORRECTION (KV-27FS320 ONLY) ★ 43 8-451-499-41 DY Y29RSA-V (KV-27FS320 ONLY) 54 2-163-920-01 PLATE, TLH CORRECTION (KV-27FS320 ONLY) ★ 43 <td></td> <td></td> <td></td> <td></td> <td></td> <td>49</td> <td>4-083-414-01</td> <td>PIECE A(110), CONV CORRECT</td>						49	4-083-414-01	PIECE A(110), CONV CORRECT
(KV-2FS320 ONLY) (KV-36FS320 ONLY) (COL, NA ROTATION (RT-200) (KV-36FS320 ONLY) 40 4-086-875-02 SUPPORTER, CRT (KV-36FS320 ONLY) 50 4-082-640-01 HOOK, GROUND WIRE (KV-32FS320 ONEY) 51 1-452-885-11 MAGNET, LANDING 52 4-062-970-12 CLIP (29RSN), DCC (KV-27FS320 ONLY) 53 4-062-990-12 CLIP (29RSN), DCC (KV-27FS320 ONLY) 54 41 8-735-082-05 CRT 29RSN(SDP) M68LNH050X (KV-32FS320 ONLY) 55 4-065-995-12 HOLDER, DGC (KV-32FS320 ONLY) 56 4-065-995-05 HOLDER, DGC (KV-36FS320 ONLY) 57 4-065-995-05 HOLDER, DGC (KV-36FS320 ONLY) 41 8-735-090-05 (RT 38RSN A90LPW80X (KV-36FS320 HAWAII ONLY) 41 8-735-048-05 CRT 38RSN A90LPW80X (KV-36FS320 US & CND ONLY) 42 4-088-879-01 CUSHION, 36 CRT SUPPORTER (KV-36FS320 ONLY) 43 8-451-494-41 DY Y29RSA-V (KV-32FS320 ONLY) 43 8-451-499-41 DY Y34RSA-V (KV-32FS320 ONLY) 43 8-451-499-41 DY Y34RSA-V (KV-32FS320 ONLY) 44 8-453-011-11 NECK ASSEMBLY NA299-M (KV-32FS320 ONLY) 55 4-087-878-04 COVER, REAR (KV-32FS320 ONLY) 56 4-086-697-04 COVER, REAR (KV-32FS320 ONLY) 57 4-086-697-04 COVER, REAR (KV-32FS320 ONLY) 58 4-086-697-04 COVER, REAR (KV-32FS320 ONLY) 59 4-086-697-04 COVER, REAR (KV-32FS320 ONLY)		38	1-825-513-11	LOUDSPEAKER (6X12CM)				(KV-27FS320/32FS320 ONLY)
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▲ 41 8-735-048-05 CRT 38RSN A90LPW80X (KV-36FS320 US & CND ONLY) 53 4-053-005-01 SPACER, DY (KV-27FS320/32FS320 ONLY) 42 4-088-879-01 CUSHION, 36 CRT SUPPORTER (KV-36FS320 ONLY) (KV-36FS320 ONLY) (KV-36FS320 ONLY) ★ 43 8-451-494-41 DY Y29RSA-V (KV-27FS320 ONLY) (KV-27FS320/32FS320 ONLY) ★ 43 8-451-499-41 DY Y34RSA-V (KV-32FS320 ONLY) (KV-36FS320 ONLY) ★ 43 8-451-506-22 DY Y38RSA-V (KV-36FS320 ONLY) 55 4-087-777-05 COVER, REAR (KV-27FS320 ONLY) ★ 44 8-453-011-11 NECK ASSEMBLY NA299-M (KV-27FS320 ONLY) 55 4-086-697-04 COVER, REAR (KV-36FS320 ONLY) ★ 44 8-453-007-41 NECK ASSEMBLY NA324-M4 (KV-32FS320 ONLY) 55 4-086-697-04 COVER, REAR (KV-36FS320 ONLY)	\triangle	41	8-735-090-05		0X			(KV-36FS320 ONLY)
(KV-27FS320 US & CND ONLY) 42 4-088-879-01 CUSHION, 36 CRT SUPPORTER (KV-36FS320 ONLY) 43 8-451-494-41 DY Y29RSA-V (KV-27FS320 ONLY) 43 8-451-499-41 DY Y34RSA-V (KV-32FS320 ONLY) 44 8-453-011-11 NECK ASSEMBLY NA299-M (KV-27FS320 ONLY) 44 8-453-007-41 NECK ASSEMBLY NA324-M4 (KV-32FS320 ONLY) (KV-36FS320 ONLY) (KV-27FS320 ONLY) 53 2-164-116-01 SPACER, DY (KV-36FS320 ONLY) 54 4-081-170-01 PLATE, TLH CORRECTION (KV-27FS320/32FS320 ONLY) 55 4-087-777-05 COVER, REAR (KV-27FS320 ONLY) 55 4-087-878-04 COVER, REAR (KV-32FS320 ONLY) 55 4-086-697-04 COVER, REAR (KV-36FS320 ONLY) 55 4-086-697-04 COVER, REAR (KV-36FS320 ONLY)				(KV-36FS320 HAWAII ONLY)				
42 4-088-879-01 CUSHION, 36 CRT SUPPORTER (KV-36FS320 ONLY) △ 43 8-451-494-41 DY Y29RSA-V (KV-27FS320 ONLY) △ 43 8-451-499-41 DY Y34RSA-V (KV-36FS320 ONLY) △ 43 8-451-506-22 DY Y38RSA-V (KV-36FS320 ONLY) △ 44 8-453-011-11 NECK ASSEMBLY NA299-M (KV-27FS320 ONLY) △ 44 8-453-007-41 NECK ASSEMBLY NA324-M4 (KV-36FS320 ONLY) 53 2-164-116-01 SPACER, DY (KV-36FS320 ONLY) 54 4-081-170-01 PLATE, TLH CORRECTION (KV-27FS320/32FS320 ONLY) 54 2-163-920-01 PLATE, TLH CORRECTION (KV-36FS320 ONLY) 55 4-087-777-05 COVER, REAR (KV-27FS320 ONLY) 55 4-087-878-04 COVER, REAR (KV-32FS320 ONLY) 55 4-086-697-04 COVER, REAR (KV-36FS320 ONLY) 57 4-086-697-04 COVER, REAR (KV-36FS320 ONLY)	\triangle	41	8-735-048-05	CRT 38RSN A90LPW80X		53	4-053-005-01	SPACER, DY
42 4-088-879-01 CUSHION, 36 CRT SUPPORTER (KV-36FS320 ONLY) ▲ 43 8-451-494-41 DY Y29RSA-V (KV-27FS320 ONLY) ▲ 43 8-451-499-41 DY Y34RSA-V (KV-32FS320 ONLY) ▲ 43 8-451-506-22 DY Y38RSA-V (KV-36FS320 ONLY) ▲ 44 8-453-011-11 NECK ASSEMBLY NA299-M (KV-27FS320 ONLY) ▲ 44 8-453-007-41 NECK ASSEMBLY NA324-M4 (KV-32FS320 ONLY) ★ 45 4-081-170-01 PLATE, TLH CORRECTION (KV-27FS320 ONLY) 54 2-163-920-01 PLATE, TLH CORRECTION (KV-36FS320 ONLY) 55 4-087-777-05 COVER, REAR (KV-27FS320 ONLY) 55 4-087-878-04 COVER, REAR (KV-32FS320 ONLY) 55 4-086-697-04 COVER, REAR (KV-36FS320 ONLY) 56 4-086-697-04 COVER, REAR (KV-36FS320 ONLY)				(KV-36FS320 US & CND ONLY)				
(KV-36FS320 ONLY)						53	2-164-116-01	
★ 43 8-451-494-41 DY Y29RSA-V (KV-27FS320 ONLY) (KV-27FS320 ONLY) (KV-27FS320 ONLY) ★ 43 8-451-499-41 DY Y34RSA-V (KV-36FS320 ONLY) 54 2-163-920-01 PLATE, TLH CORRECTION (KV-36FS320 ONLY) ★ 43 8-451-506-22 DY Y38RSA-V (KV-36FS320 ONLY) 55 4-087-777-05 COVER, REAR (KV-27FS320 ONLY) ★ 44 8-453-011-11 NECK ASSEMBLY NA299-M (KV-27FS320 ONLY) 55 4-087-878-04 COVER, REAR (KV-32FS320 ONLY) ★ 44 8-453-007-41 NECK ASSEMBLY NA324-M4 (KV-36FS320 ONLY) ★ 44 8-453-007-41 NECK ASSEMBLY NA324-M4 (KV-36FS320 ONLY)		42	4-088-879-01					·
(KV-27FS320 ONLY)				•		54	4-081-170-01	
★ 43 8-451-499-41 DY Y34RSA-V (KV-32FS320 ONLY) (KV-36FS320 ONLY) ★ 43 8-451-506-22 DY Y38RSA-V (KV-36FS320 ONLY) 55 4-087-777-05 (KV-27FS320 ONLY) COVER, REAR (KV-27FS320 ONLY) ★ 44 8-453-011-11 NECK ASSEMBLY NA299-M (KV-27FS320 ONLY) 55 4-087-878-04 (KV-32FS320 ONLY) COVER, REAR (KV-32FS320 ONLY) ★ 44 8-453-007-41 NECK ASSEMBLY NA324-M4 (KV-36FS320 ONLY) 55 4-086-697-04 (KV-36FS320 ONLY)		43	8-451-494-41					,
(KV-32FS320 ONLY) Δ 43 8-451-506-22 DY Y38RSA-V (KV-36FS320 ONLY) 55 4-087-777-05 COVER, REAR (KV-27FS320 ONLY) 55 4-087-878-04 COVER, REAR (KV-32FS320 ONLY) (KV-27FS320 ONLY) 55 4-086-697-04 COVER, REAR (KV-32FS320 ONLY) 55 4-086-697-04 COVER, REAR (KV-32FS320 ONLY) (KV-32FS320 ONLY)				,		54	2-163-920-01	·
★ 43 8-451-506-22 DY Y38RSA-V (KV-36FS320 ONLY) 55 4-087-777-05 (KV-27FS320 ONLY) ★ 44 8-453-011-11 NECK ASSEMBLY NA299-M (KV-27FS320 ONLY) (KV-32FS320 ONLY) ★ 44 8-453-007-41 NECK ASSEMBLY NA324-M4 (KV-32FS320 ONLY) ★ 44 8-453-007-41 NECK ASSEMBLY NA324-M4 (KV-36FS320 ONLY)		43	8-451-499-41					(KV-36FS320 ONLY)
(KV-36FS320 ONLY) 55 4-087-878-04 COVER, REAR CM 44 8-453-011-11 NECK ASSEMBLY NA299-M (KV-27FS320 ONLY) (KV-27FS320 ONLY) 55 4-086-697-04 COVER, REAR (KV-32FS320 ONLY) 55 4-086-697-04 COVER, REAR (KV-36FS320 ONLY) (KV-36FS320 ONLY)				•				
★ 44 8-453-011-11 NECK ASSEMBLY NA299-M (KV-27FS320 ONLY) 55 4-087-878-04 COVER, REAR (KV-32FS320 ONLY) ★ 44 8-453-007-41 NECK ASSEMBLY NA324-M4 (KV-32FS320/36FS320 ONLY) 55 4-086-697-04 COVER, REAR (KV-36FS320 ONLY)		43	8-451-506-22			55	4-087-777-05	
★ 44 8-453-011-11 NECK ASSEMBLY NA299-M (KV-27FS320 ONLY) (KV-32FS320 ONLY) ★ 44 8-453-007-41 NECK ASSEMBLY NA324-M4 (KV-32FS320 ONLY) 55 4-086-697-04 COVER, REAR (KV-36FS320 ONLY)				(KV-36FS320 ONLY)				·
(KV-27FS320 ONLY) 55 4-086-697-04 COVER, REAR 44 8-453-007-41 NECK ASSEMBLY NA324-M4 (KV-36FS320 ONLY) (KV-32FS320/36FS320 ONLY)	٨					55	4-087-878-04	
	<u> </u>	44	8-453-011-11					,
(KV-32FS320/36FS320 ONLY)				*		55	4-086-697-04	
	<u> </u>	44	8-453-007-41					(KV-36FS320 ONLY)
45 4-036-329-01 SPRING (B). TENSION I				,				
		45	4-036-329-01					
(KV-27FS320 ONLY)				(KV-27FS320 ONLY)				

KV-27FS320/32FS120/32FS320/34FS120/36FS320/38FS120

NOTE: The components identified by shading and \triangle mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque 🛆 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-3. CHASSIS (KV-32FS120/34FS120/36FS120/38FS120 ONLY)

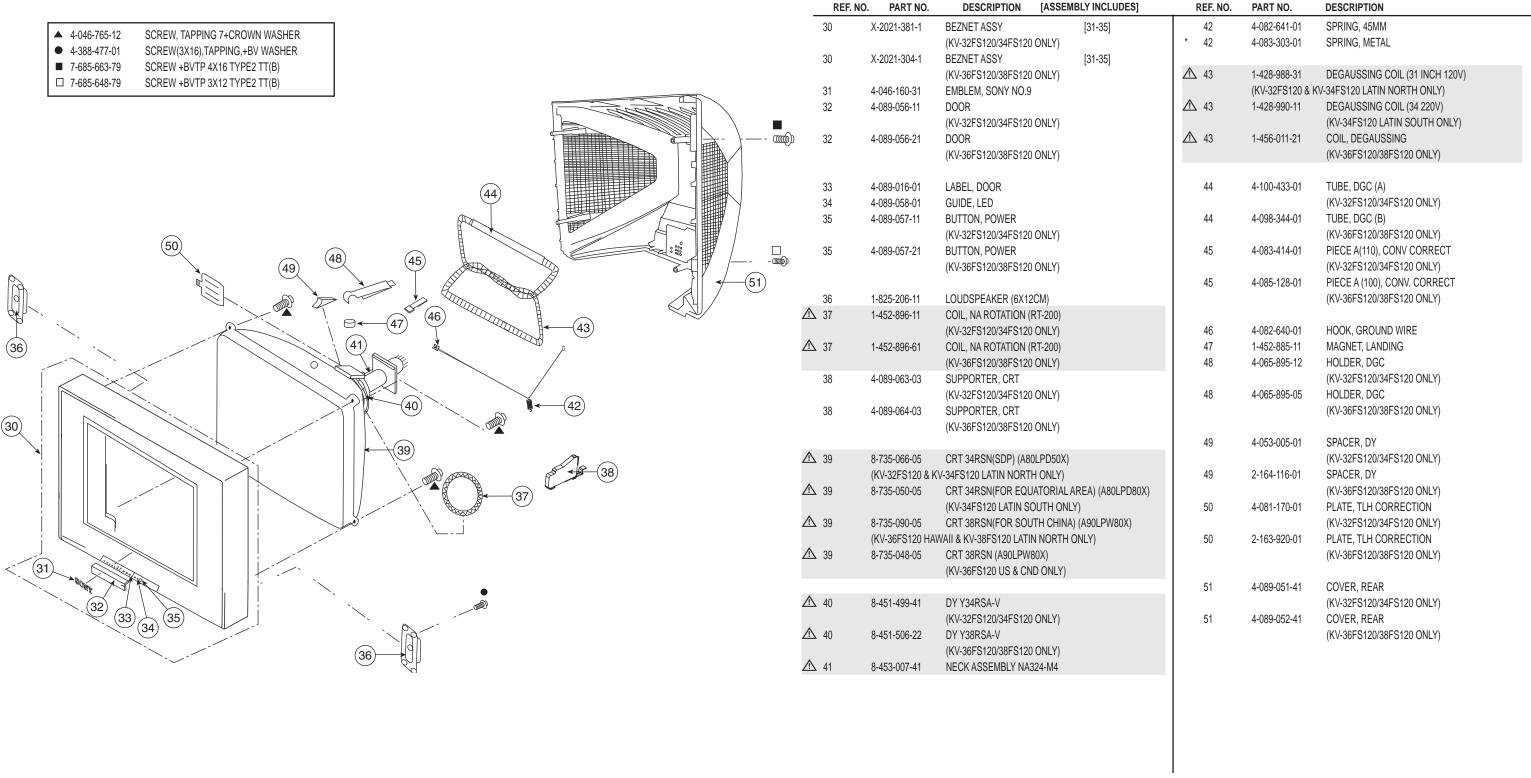


KV-27FS320/32FS120/32FS320/34FS120/36FS320/34FS120/36FS320/38FS120

NOTE: The components identified by shading and \triangle mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-4. PICTURE TUBE (KV-32FS120/34FS120/36FS120/38FS120 ONLY)



KV-27FS320/32FS120/32FS320/34FS120/36FS320/38FS120

SECTION 7: ELECTRICAL PARTS LIST

NOTE: The components identified by shading and \triangle mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque \triangle sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components in this manual identified by the following symbol:

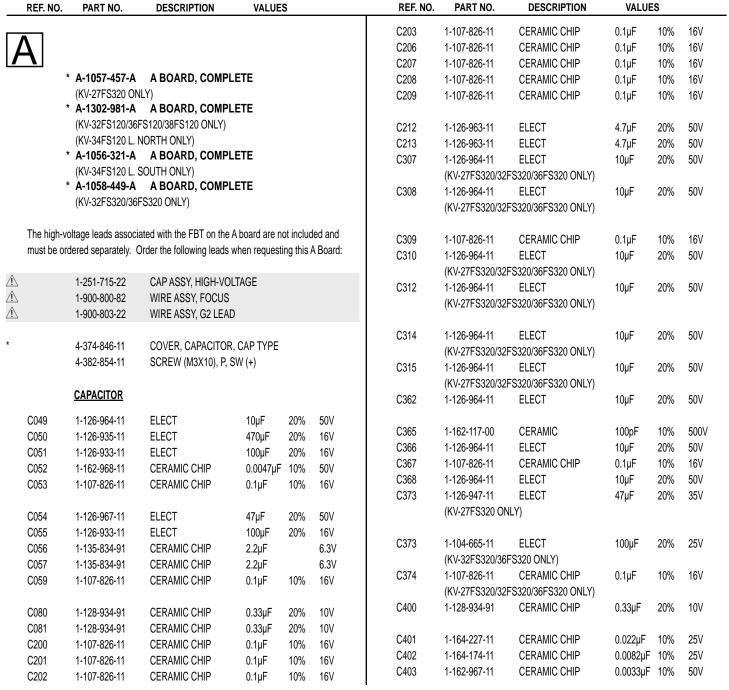
indicate parts that have been carefully factory-selected to satisfy regulations regarding X-ray radiation for each set.

Should replacement be required for one of these components, replace only with the value originally used.

RESISTORS

- All resistors are in ohms
- · F: nonflammable
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When ordering parts by reference number, please include the board name.



^{*} Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.



	REF. NO.	PART NO.	DESCRIPTION	VALUES	8			REF. NO.	PART NO.	DESCRIPTION	VALUE	S	
	C404	1-162-967-11	CERAMIC CHIP	0.0033µF	10%	50V	<u>^</u>	C511	1-136-086-00	FILM	17000pF	3%	1.2KV
	C405	1-164-677-11	CERAMIC CHIP	0.033µF	10%	16V			(KV-27FS320 ONL	.Y)	•		
	C406	1-164-677-11	CERAMIC CHIP	0.033µF	10%	16V	<u>/</u> !\	C511	1-117-652-00	FILM	22000pF	3%	1.2KV
	C407	1-115-412-11	CERAMIC CHIP	680pF	5%	25V			(ALL EXCEPT KV-	27FS320)			
	C408	1-115-412-11	CERAMIC CHIP	680pF	5%	25V		C512	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
	C409	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V	<u></u>	C513	1-129-722-00	FILM	0.047µF	5%	630V
	C410	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V			(KV-27FS320 ONL	.Y)			
	C411	1-128-934-91	CERAMIC CHIP	0.33µF	20%	10V	<u>^</u>	C513	1-130-118-91	FILM	0.051µF	5%	400V
	C412	1-126-961-11	ELECT	2.2µF	20%	50V			(ALL EXCEPT KV-	27FS320)			
	C413	1-126-960-11	ELECT	1µF	20%	50V	<u> </u>	C514	1-109-844-11	FILM	0.68µF	5%	400V
	C414	1-126-960-11	ELECT	1µF	20%	50V			(KV-27FS320 ONL	-Y)			
	C415	1-126-960-11	ELECT	1μF	20%	50V	<u>^</u>	C514	1-115-521-11	FILM	0.82µF	5%	250V
	C416	1-126-960-11	ELECT	1μF	20%	50V	Z:\	0014	(ALL EXCEPT KV-		0.02μι	J /0	250 V
	C417	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V		C515	1-104-987-11	MYLAR	0.001µF	5%	200V
	C418	1-126-963-11	ELECT	4.7µF	20%	50V	<u>^</u>	C516	1-115-521-11	FILM	0.82µF	5%	250V
				•			Z \	0010	(KV-27FS320 ONL		0.02μι	3 70	200 V
	C420	1-126-960-11	ELECT	1µF	20%	50V							
	C421	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	<u> </u>	C516	1-115-356-11	FILM	1.2µF	5%	250V
		*	FS320/36FS320 ONLY)						(ALL EXCEPT KV-	•			
	C422	1-126-947-11	ELECT	47µF	20%	35V		C517	1-107-649-11	ELECT	2.2µF	20%	250V
	C423	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		C518	1-106-387-00	MYLAR	0.068µF	10%	200V
		(KV-2/FS320/32F	FS320/36FS320 ONLY)					C519	1-102-244-00	CERAMIC	220pF	10%	500V
	C450	1-100-120-51	ELECT	1000µF	20%	35V		C520	1-165-136-11	CERAMIC	3300pF	10%	500V
	C451	1-137-194-81	FILM	0.47µF	5%	50V		C522	1-126-960-11	ELECT	1µF	20%	50V
	C456	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		C523	1-126-934-11	ELECT	220µF	20%	16V
	C458	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		C525	1-102-244-00	CERAMIC	220pF	10%	500V
	C461	1-126-965-91	ELECT	22µF	20%	50V		C526	1-107-662-11	ELECT	22µF	20%	350V
	C463	1-126-963-11	ELECT	4.7µF	20%	50V	<u></u>	C527	1-162-116-00	CERAMIC	680pF	10%	2KV
	C466	1-126-935-11	ELECT	470µF	20%	16V		C528	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
	C467	1-126-935-11	ELECT	470µF	20%	16V		C529	1-104-662-91	ELECT	22µF	20%	25V
	C468	1-126-935-11	ELECT	470µF	20%	16V		C530	1-164-690-91	CERAMIC CHIP	0.0022µF	5%	50V
	C470	1-126-935-11	ELECT	470μF	20%	16V		C531	1-126-965-91	ELECT	22µF	20%	50V
	C472	1-126-935-11	ELECT	470µF	20%	16V		C532	1-126-965-91	ELECT	22µF	20%	50V
	C473	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V		C534	1-126-967-11	ELECT	μ· 47μF	20%	50V
	C476	1-126-964-11	ELECT	10μF	20%	50V		C535	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C480	1-126-960-11	ELECT	1µF	20%	50V		C537	1-126-941-11	ELECT	470µF	20%	25V
	C502	1-126-959-11	ELECT	0.47µF	20%	50V		C539	1-126-941-11	ELECT	470μF	20%	25V
	C503	1-164-315-11	CERAMIC CHIP	470pF	5%	50V		C540	1-131-867-51	ELECT	100µF		160V
	C504	1-102-228-00	CERAMIC	470pF	10%	500V		C541	1-128-560-11	ELECT	22µF	20%	100V
	C505	1-102-228-00	CERAMIC	470pF	10%	500V		C545	1-106-387-00	MYLAR	0.068µF	10%	200V
	C506	1-106-383-00	MYLAR	0.047µF	10%	200V		C546	1-104-987-11	MYLAR	0.001µF	5%	200V
<u> </u>	C507	1-162-116-00	CERAMIC	680pF	10%	2KV			(ALL EXCEPT KV-		· r	-	
<u> </u>	C509	1-162-116-00	CERAMIC	680pF	10%	2KV		C547	1-104-987-11	MYLAR	0.001µF	5%	200V
	C510	1-137-150-11	FILM	0.01µF	5%	100V		JU71	(ALL EXCEPT KV-		0.00 ιμι	U /U	2001
	-			- i					(ALL LAOLI I IVV	2.1 0020]			



	REF. NO.	PART NO.	DESCRIPTION	VALUE	s		REF	. NO.	PART NO.	DESCRIPTION	VALUE	S	
<u>^</u> î\	C553	1-117-412-11	FILM	0.24µF	5%	250V	C632)	1-126-943-11	ELECT	2200µF	20%	25V
		(KV-27FS320 ON		V.= .p.	0,0	200.	C633	3	1-136-479-11	FILM	0.001µF	5%	100V
<u>^</u> [\	C553	1-117-661-11	FILM	0.15µF	5%	250V	C634	ļ	1-126-964-11	ELECT	10μF	20%	50V
		(ALL EXCEPT KV					C635	;	1-126-963-11	ELECT	4.7µF	20%	50V
<u>^</u> [\	C554	1-117-629-11	FILM	2700pF	3%	1.2KV	C637	,	1-136-165-00	FILM	0.1µF	5%	50V
		(KV-27FS320 ON		oop.	0,0						•		
		(50_5 5	/				C638	}	1-126-943-11	ELECT	2200µF	20%	25V
<u>/</u> ì\	C554	1-117-635-11	FILM	4700pF	3%	1.2KV	C642)	1-126-969-11	ELECT	220µF	20%	50V
		(ALL EXCEPT KV			-,-		C643	}	1-136-165-00	FILM	0.1µF	5%	50V
	C561	1-126-967-11	ELECT	47µF	20%	50V	C645	;	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
	C563	1-104-666-11	ELECT	220µF	20%	25V	C647	,	1-126-947-11	ELECT	47µF	20%	35V
	C565	1-126-969-11	ELECT	220µF	20%	50V					•		
	0000			op.	_0,0		C648	}	1-164-143-11	CERAMIC	0.001µF	10%	1KV
	C568	1-137-190-91	FILM	0.22µF	5%	50V	C649)	1-164-143-11	CERAMIC	0.001µF	10%	1KV
<u>(Ì</u>		1-165-529-11	MYLAR	0.22µF	10	275V	C650)	1-100-120-51	ELECT	1000µF	20%	35V
	C588	1-130-491-00	MYLAR	0.047µF	5%	50V	C651		1-126-942-61	ELECT	1000µF	20%	25V
	C590	1-126-964-11	ELECT	10μF	20%	50V			(ALL EXCEPT K	V-34FS120 L. SOUTH)	·		
	C600	1-117-703-11	MYLAR	0.47µF	10	250V			•	,			
	0000	(KV-34FS120 L. S		0 p.	10	2001	C651		1-126-943-61	ELECT	2200µF	20%	25V
		(0 0 . 2 0 2 0	,						(KV-34FS120 L.	SOUTH ONLY)	·		
<u>/</u> ì\	C601	1-165-529-11	MYLAR	0.22µF	10	275V	C652)	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	C602	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C653	}	1-126-964-11	ELECT	10μF	20%	50V
/Î\	C603	1-165-529-11	MYLAR	0.22μF	10	275V	C656	6	1-161-964-91	CERAMIC	0.0047µF		250V
	C604	1-164-625-11	CERAMIC	680pF	10%	500V					•		
<u>(Ì</u>	C608	1-119-912-51	CERAMIC	0.001µF	20%	125V	C658	}	1-161-964-91	CERAMIC	0.0047µF		250V
			02.0.000	0.00.	_0,0	.201	C661		1-126-947-11	ELECT	47μF	20%	35V
	C609	1-164-625-11	CERAMIC	680pF	10%	500V	C669)	1-164-625-11	CERAMIC	680pF	10%	500V
	C612	1-104-665-11	ELECT	100µF	20%	25V	C670)	1-164-625-11	CERAMIC	680pF	10%	500V
	C613	1-117-214-11	CERAMIC	0.001µF	10%	2KV	C672)	1-165-953-11	FILM	47000pF	3%	800V
	00.0	(KV-34FS120 L. S		0.00.	. 0 / 0						·		
	C614	1-117-214-11	CERAMIC	0.001µF	10%	2KV	C690)	1-126-971-11	ELECT	470µF	20%	50V
		(KV-34FS120 L. S		0.00.	. 0 / 0		C150)1	1-107-846-11	FILM	0.1µF	5%	400V
		(0 0 . 2 0 2 0	,						(ALL EXCEPT K	V-27FS320)	•		
	C615	1-117-214-11	CERAMIC	0.001µF	10%	2KV			•	,			
	00.0	(KV-34FS120 L. S		0.00.	. 0 / 0				CONNECTOR				
	C616	1-126-943-11	ELECT	2200µF	20%	25V							
	C617	1-123-024-21	ELECT	33µF		160V	CN20)2	1-695-915-11	TAB (CONTACT)			
	C619	1-117-214-11	CERAMIC	0.001µF	10%	2KV			•	FS320/36FS320 ONLY)			
		(KV-34FS120 L. S					* CN40		1-564-507-11	PLUG, CONNECTOR	4P		
		,	,				CNO		1-580-798-11	CONNECTOR PIN (DY)			
	C620	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	* CN50)3	1-564-510-11	PLUG, CONNECTOR	7P		
	C621	1-100-961-11	ELECT	680µF	20%	250V			4 =0= 0== ::	0011150705 0115-0			
			FS320/36FS320 ONLY)				* CN50		1-785-879-11	CONNECTOR, ONE TO			
	C621	1-117-894-11	ELECT	560µF	20%	250V	CINO		1-573-963-11	PIN, CONNECTOR (PC			
			S120/36FS120/38FS120				* CN60		1-580-843-11	PIN, CONNECTOR (PO	WER)		
				,			CN60)1	1-695-915-11	TAB (CONTACT)			
<u>/</u> ì\	C622	1-119-912-51	CERAMIC	0.001µF	20%	125V			DIAD=				
	C629	1-100-961-11	ELECT	680µF	20%	250V			DIODE				
			FS320/36FS320 ONLY)				D009)	8-719-982-22	DIODE	MTZJ-30E)	
	C629	1-117-894-11	ELECT	560µF	20%	250V	D200		8-719-069-60	DIODE	UDZSTE-		
			S120/36FS120/38FS120				D201		8-719-069-60	DIODE	UDZSTE-		
				,			D209		8-719-069-60	DIODE	UDZSTE-		
							. 5200						



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES
D210	8-719-069-60	DIODE	UDZSTE-179.1B		I	D501	8-719-404-50	DIODE	MA111-TX
D211	8-719-069-60	DIODE	UDZSTE-179.1B		<u> </u>	D503	8-719-081-00	DIODE	BY228/A52A/
D212	8-719-069-60	DIODE	UDZSTE-179.1B		1	D504	6-500-485-01	DIODE	FR305G-EB
D213	8-719-510-02	DIODE	D1NS4		[D505	8-719-908-03	DIODE	GP08D
D218	8-719-929-15	DIODE	HZS9.1NB2		I	D506	8-719-908-03	DIODE	GP08D
D219	8-719-929-15	DIODE	HZS9.1NB2		I	D508	8-719-404-50	DIODE	MA111-TX
D305	8-719-070-62	DIODE	PDZ9.1B-115		I	D509	8-719-404-50	DIODE	MA111-TX
D306	8-719-070-62	DIODE	PDZ9.1B-115		<u> </u>	D515	8-719-075-41	DIODE	PR1004GT
D307	8-719-070-62	DIODE	PDZ9.1B-115		- 1	D516	8-719-404-50	DIODE	MA111-TX
D308	8-719-977-28	DIODE	DTZ10B		I	D518	8-719-404-50	DIODE	MA111-TX
D309	8-719-069-60	DIODE	UDZSTE-179.1B		Æ I	D519	8-719-302-43	DIODE	EL1Z
	(ALL EXCEPT 27	7FS320/34FS120 L. SOUT	TH)			D520	8-719-404-50	DIODE	MA111-TX
D310	8-719-108-12	DIODE	RD9.1EW			D521	8-719-921-63	DIODE	MTZJ-7.5B
	(KV-32FS120/34	FS120/36FS120/38FS120	ONLY)		I	D522	8-719-404-50	DIODE	MA111-TX
D311	8-719-069-60	DIODE	UDZSTE-179.1B		I	D525	8-719-404-50	DIODE	MA111-TX
	(ALL EXCEPT 27	7FS320/34FS120 L. SOUT	TH)						
						D526	8-719-404-50	DIODE	MA111-TX
D318	8-719-069-60	DIODE	UDZSTE-179.1B			D530	6-500-531-01	DIODE	PG154R
		FS320/36FS320 ONLY)				D531	6-500-531-01	DIODE	PG154R
D319	8-719-069-60	DIODE	UDZSTE-179.1B			D534	8-719-074-25	DIODE	PG104R
		FS320/36FS320 ONLY)			I	D535	8-719-404-50	DIODE	MA111-TX
D320	8-719-069-60	DIODE	UDZSTE-179.1B						
	(KV-27FS320/32	FS320/36FS320 ONLY)				D551	8-719-069-55	DIODE	UDZSTE-175.6B
						D561	8-719-075-33	DIODE	1N4003GA
D321	8-719-069-60	DIODE	UDZSTE-179.1B			D580	8-719-991-33	DIODE	1SS133T-77
		FS320/36FS320 ONLY)				D588	8-719-404-50	DIODE	MA111-TX
D322	8-719-069-60	DIODE	UDZSTE-179.1B		l	D589	8-719-404-50	DIODE	MA111-TX
Door		FS320/36FS320 ONLY)	UD70TE 470 4D			DE00	0.740.404.50	DIODE	MA444 TV
D323	8-719-069-60	DIODE	UDZSTE-179.1B			D590	8-719-404-50	DIODE	MA111-TX
	(KV-27FS320/32	FS320/36FS320 ONLY)				D600	8-719-510-53	DIODE	D4SB60L
Door	0.740.000.00	DIODE	UD70TE 470 4D			D602	8-719-064-12	DIODE	S1NB60-4062
D324	8-719-069-60	DIODE	UDZSTE-179.1B			D611	8-719-062-40	DIODE	D4SBL20UF3
Door	•	FS120/36FS120/38FS120	,		ı	D612	8-719-068-00	DIODE	ERC04-06SE
D325	8-719-069-60	DIODE	UDZSTE-179.1B				(ALL EXCEPT K	/-34FS120 L. SOUTH)	
D400	8-719-404-50	FS120/36FS120/38FS120 DIODE	MA111-TX			D613	8-719-068-00	DIODE	ERC04-06SE
D400	0-7 19-404-30	DIODE	IVIA I I I - I A			סוסט		/-34FS120 L. SOUTH)	ERG04-003E
D401	8-719-069-60	DIODE	UDZSTE-179.1B			D61/	8-719-057-52	V-34F3120 L. 3001H) DIODE	EZ0150AV1
D401 D402	8-719-069-60 8-719-069-60	DIODE	UDZSTE-179.1B			D614 D615	8-719-057-52 8-719-062-40	DIODE	D4SBL20UF3
D402 D405	8-719-404-50	DIODE	MA111-TX			D618	8-719-062-40 8-719-979-64	DIODE	UF4005PKG23
D405 D414	8-719-404-50 8-719-921-63	DIODE	MTZJ-7.5B		'	010	0-113-313-04	DIODE	UI 40001 NOZO
D414 D418	1-216-864-11	SHORT CHIP	WITZU-7.0D			D620	8-719-404-50	DIODE	MA111-TX
טודע	1-210-00 4- 11	OHORT OHIII				D620 D621	6-500-181-01	DIODE	MA6D50
D422	1-216-809-11	METAL CHIP	100 5%	1/10W		D628	8-719-404-50	DIODE	MA111-TX
D422 D423	8-719-404-50	DIODE	MA111-TX	1/ 1000		D629	8-719-083-82	DIODE	UDZS-TE17-12B
D423 D424	8-719-404-50 8-719-404-50	DIODE	MA111-TX			D631	6-500-567-01	DIODE	10ERB20-TA1B2
D424 D425	8-719-056-84	DIODE	UDZ-TE-17-7.5B		'	D001	0 000-001-01	DIODE	IVENDED ⁻ IAIDE
D425 D500	8-719-030-04	DIODE	BY228/A52A/			D640	8-719-404-50	DIODE	MA111-TX
D000	0 1 10 001-00	DIODE	ם ו בבטורטברו			D641	8-719-404-50	DIODE	MA111-TX
						D645	6-500-567-01	DIODE	10ERB20-TA1B2
				I	'	5070	0 000 001-01	DIODE	TOLINDED INTOL



D646 8-719-404-50 DIODE MA111-TX JACK D647 6-500-567-01 DIODE 10ERB20-TA1B2 D651 8-719-109-93 DIODE RD6.2ESB2 * J201 1-818-351-11 D690 8-719-982-13 DIODE MTZJ-27 * J205 1-818-012-11	S TERMINAL-PIN JAC	
D647 6-500-567-01 DIODE 10ERB20-TA1B2 D651 8-719-109-93 DIODE RD6.2ESB2 * J201 1-818-351-11 * J205 1.948-012.44		
D651 8-719-109-93 DIODE RD6.2ESB2 * J201 1-818-351-11 * J205 1 948-012-44		
I * 100E 1 010 010 11	DINI IVCK BI UCK	
1060 0 1 13 307 10 10 10 10 10 10 10 10 10 10 10 10 10		10P
(KV-27FS320/32I	FS320/36FS320 ONLY)	
FUSE J206 1-817-461-11	JACK BLOCK, PIN	5P
(KV-32FS120/34)	FS120/36FS120/38FS120	ONLY)
♠ F601 1-576-193-11 FUSE 6.3A 125V J207 1-794-116-11	JACK BLOCK, PIN	2P
(ALL EXCEPT KV-34FS120 L. SOUTH)		
↑ F601 1-532-506-51 FUSE 6.3A 250V CHIP CONDUCT	<u>OR</u>	
(KV-34FS120 L. SOUTH ONLY)	OLIODE OLUD	
JR1 1-216-864-11	SHORT CHIP	
FERRITE BEAD JR3 1-216-864-11	SHORT CHIP	
JR4 1-216-864-11	SHORT CHIP	
FB501 1-412-911-11 FERRITE 0µH JR9 1-216-864-11	SHORT CHIP	
FB502 1-412-911-11 FERRITE 0µH JR10 1-216-864-11	SHORT CHIP	
FB503 1-412-911-11 FERRITE 0µH		
FB505 1-412-911-11 FERRITE 0µH JR16 1-216-864-11	SHORT CHIP	
FB602 1-412-911-11 FERRITE 0µH JR332 1-216-864-11	SHORT CHIP	
(KV-32FS120/34)	FS120/36FS120/38FS120	ONLY)
FB604 1-412-911-11 FERRITE 0µH JR334 1-216-864-11	SHORT CHIP	
FB613 1-410-397-21 FERRITE 1.1µH (KV-32FS120/34l	FS120/36FS120/38FS120	ONLY)
FB614 1-412-911-11 FERRITE 0μH		
FB616 1-412-911-11 FERRITE 0µH JR335 1-216-864-11	SHORT CHIP	
· · · · · · · · · · · · · · · · · · ·	FS120/36FS120/38FS120	ONLY)
JR444 1-216-864-11	SHORT CHIP	,
FB650 1-412-911-11 FERRITE 0µH JR445 1-216-864-11	SHORT CHIP	
FB651 1-412-911-11 FERRITE 0µH		
FB652 1-412-911-11 FERRITE 0µH		
FB653 1-412-911-11 FERRITE 0µH		
L003 1-414-856-11	INDUCTOR	10µH
FUSE HOLDER L004 1-414-857-11	INDUCTOR	100µH
L009 1-414-857-11	INDUCTOR	100μH
↑ FH1 1-533-223-11 FUSE HOLDER 0A 0V L501 1-406-677-11	INDUCTOR	10MH
↑ FH2 1-533-223-11 FUSE HOLDER 0A 0V L502 1-412-552-11	INDUCTOR	2.2MH
<u>IC</u> L503 1-406-677-11	INDUCTOR	10MH
⚠ L505 1-406-978-11	INDUCTOR	150µH
IC302 8-759-353-00 IC NJM2534M(TE2) (ALL EXCEPT K)	V-27FS320)	
IC303 8-759-443-11 IC NJM2283M-TE1	INDUCTOR	100μH
(KV-27FS320/32FS320/36FS320 ONLY) (KV-27FS320 ON		•
IC400 6-703-190-01 IC NJW1134AGK1-TE2	,	
IC401 6-705-054-01 IC TDA8947J L511 1-409-955-31	INDUCTOR	8MH
L515 1-412-529-11	INDUCTOR	22µH
IC501 8-759-700-07 IC NJM2903M L517 1-412-552-11	INDUCTOR	2.2MH
↑ IC561 8-759-980-58 IC TDA8172 L604 1-412-525-31	INDUCTOR	10µH
(KV-27FS320 ONLY) L605 1-412-911-11	FERRITE	0μH
↑ IC561 8-759-696-71 IC STV9379A	LIMIL	υμι τ
(ALL EVEEDT I/V 27E2220)	FERRITE	∩u∐
L000 1-412-511-11		0μH 22πΗ
IC600 6-705-810-01 IC MCZ3001DB L608 1-412-529-11	INDUCTOR	22µH
IC600 6-705-810-01 IC MICZ3001DB L609 1-412-529-11 IC601 8-749-012-13 IC DM-58	INDUCTOR	22µH
IC609 8-759-653-07 IC PQ09RD21		
1 3001021		



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUE	<u> </u>	
	PHOTO COUPLI	<u>ER</u>			RESISTOR				
PH602	8-749-924-35	PHOTO COUPLER	ON3171-R	R84	1-249-377-11	CARBON	0.47	5%	1/4W
				R085	1-215-924-00	METAL OXIDE	15K	5%	3W
	IC LINK			R086	1-216-839-11	METAL CHIP	33K	5%	1/10\
				R087	1-216-837-11	METAL CHIP	22K	5%	1/10
PS401	1-576-337-21	IC LINK	2.7A 50V	R089	1-216-829-11	METAL CHIP		5%	1/10
	TRANSISTOR			R099	1-216-809-11	METAL CHIP	100	5%	1/10
Q005	8-729-422-27	TRANSISTOR	2SD601A-Q	R107	1-216-809-11	METAL CHIP		5%	1/10
Q300	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R108	1-216-809-11	METAL CHIP	100	5%	1/10
Q304	8-729-424-02	TRANSISTOR	2SD601A-Q	R202	1-216-813-11	METAL CHIP	220	5%	1/10
Q304 Q401	8-729-422-27	TRANSISTOR	2SD601A-Q 2SD601A-Q	R206	1-216-813-11	METAL CHIP		5%	1/10
Q402	8-729-422-27	TRANSISTOR	2SD601A-Q	R207	1-216-845-11	METAL CHIP	100K	5%	1/10
0.400	0.700.400.07	TDANGIOTOD	0000044.0	R208	1-216-813-11	METAL CHIP		5%	1/10
Q403	8-729-422-27	TRANSISTOR	2SD601A-Q	R209	1-216-845-11	METAL CHIP		5%	1/10
Q405	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R210	1-216-813-11	METAL CHIP		5%	1/10
Q412	8-729-422-27	TRANSISTOR	2SD601A-Q	R217	1-216-845-11	METAL CHIP		5%	1/10
Q466	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	1,211	121001011	ME I/ LE OT III	10011	070	.,
Q467	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R218	1-216-845-11	METAL CHIP	100K	5%	1/10
0.400	0.700.404.00	TRANSISTOR	00D=004 0D0 TV	R219	1-216-813-11	METAL CHIP		5%	1/10
Q468	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R220	1-216-813-11	METAL CHIP		5%	1/10
Q469	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R222	1-216-845-11	METAL CHIP		5%	1/10
Q470	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R223	1-216-813-11	METAL CHIP		5%	1/10
Q471	8-729-422-27	TRANSISTOR	2SD601A-Q	1/223	1-210-013-11	WIL TAL OTH	220	J /0	1/10
Q472	8-729-422-27	TRANSISTOR	2SD601A-Q	R224	1-216-813-11	METAL CHIP	220	5%	1/10
				R225	1-216-845-11	METAL CHIP		5%	1/10
Q501	8-729-140-50	TRANSISTOR	2SC3209LK	R232	1-216-853-11	METAL CHIP		5%	1/10
Q502	6-550-107-01	TRANSISTOR	2SD2645-YB	R232 R233	1-216-853-11	METAL CHIP		5% 5%	1/10
Q509	8-729-422-27	TRANSISTOR	2SD601A-Q	R233	1-216-813-11	METAL CHIP		5% 5%	1/10
Q511	8-729-422-27	TRANSISTOR	2SD601A-Q	K234	1-210-013-11	WE TAL CHIP	220	370	1/10
Q512	8-729-809-29	TRANSISTOR	2SC4159-E	Door	4 040 040 44	METAL CLUD	220	F 0/	4/40
				R235	1-216-813-11	METAL CHIP		5% 5%	1/10
Q530	8-729-422-27	TRANSISTOR	2SD601A-Q	R301	1-216-809-11	METAL CHIP		5%	1/10
Q531	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R302	1-218-839-11	METAL CHIP		0.50%	
Q532	6-550-362-01	TRANSISTOR	KTA1279	R303	1-218-841-11	METAL CHIP		0.50%	
Q561	8-729-422-27	TRANSISTOR	2SD601A-Q	R315	1-218-285-11	METAL CHIP	75	5%	1/10
Q562	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		(KV-27FS320/32	FS320/36FS320 ONLY)			
Q564	8-729-422-27	TRANSISTOR	2SD601A-Q	R316	1-218-285-11	METAL CHIP	75	5%	1/10
Q582	8-729-422-27	TRANSISTOR	2SD601A-Q	5017	*	FS320/36FS320 ONLY)	75	5 0'	411.0
Q583	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R317	1-218-285-11	METAL CHIP	75	5%	1/10
Q600	8-729-052-32	TRANSISTOR	IRFIB7N50A-LF31	B000	*	FS320/36FS320 ONLY)	4017	5 0'	411.0
Q601	8-729-052-32	TRANSISTOR	IRFIB7N50A-LF31	R328	1-216-833-11	METAL CHIP	10K	5%	1/10
Q605	8-729-140-96	TRANSISTOR	2SD774-34	R334	1-216-809-11	METAL CHIP		5%	1/10
Q606	8-729-422-27	TRANSISTOR	2SD601A-Q	R335	1-216-821-11	METAL CHIP		5%	1/10
Q608	8-729-922-37	TRANSISTOR	2SD2144S-UVW	R359	1-216-833-11	METAL CHIP	10K	5%	1/10
Q611	6-550-409-01	TRANSISTOR	KSC2383-O	R367	1-216-864-11	SHORT CHIP			
Q690	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R369	1-216-864-11	SHORT CHIP			
Q691	8-729-026-39	TRANSISTOR	2SA933AS-QT	1					

A component identified by this M symbol indicates that it has been carefully factory-selected to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.



REF. NO.	PART NO.	DESCRIPTION	VALU	ES			REF. NO.	PART NO.	DESCRIPTION	VALU	JES	
R390	1-218-285-11	METAL CHIP	75	5%	1/10W		R482	1-216-833-11	METAL CHIP	10K	5%	1/10W
R391	1-218-285-11	METAL CHIP	75	5%	1/10W		R483	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R393	1-218-285-11	METAL CHIP	75	5%	1/10W		R484	1-249-429-11	CARBON	10K	5%	1/4W
R394	1-218-285-11	METAL CHIP	75	5%	1/10W		R485	1-216-809-11	METAL CHIP	100	5%	1/10W
R400	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R488	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
D404	4 040 000 44	METAL CLUD	400	F0/	4/40\\\		DEOO	4 040 040 44	METAL CLUD	220	F 0/	4/40\\
R401	1-216-809-11	METAL CHIP	100	5%	1/10W		R500	1-216-813-11	METAL CHIP	220	5%	1/10W
R402	1-216-845-11	METAL CHIP	100K	5%	1/10W		R502	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	•	FS320/36FS320 ONLY)					R503	1-249-425-11	CARBON	4.7K	5%	1/4W
R403	1-247-807-31	CARBON	100	5%	1/4W		R504	1-243-608-71	METAL OXIDE	1.5K	5%	3W
R404	1-216-845-11	METAL CHIP	100K	5%	1/10W			(KV-27FS320 Of	NLY)			
	(KV-27FS320/32	FS320/36FS320 ONLY)					DEO4	1 245 045 24	METAL OVIDE	470	E0/	3W
R405	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		R504	1-215-915-21 (ALL EXCEPT K	METAL OXIDE V-27ES320)	470	5%	300
R406	1-249-393-11	CARBON	10	5%	1/4W		R506	1-243-683-71	METAL OXIDE	47	5%	1W
R408	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		R507	1-249-401-11	CARBON	47	5%	1/4W
R410	1-216-813-11	METAL CHIP	2.21	5%	1/10W		R508	1-249-401-11	METAL CHIP	47 10K	5% 5%	1/4VV 1/10W
K410		FS320/36FS320 ONLY)	220	3%	1/1000		K300	1-210-033-11	WE TAL CHIP	IUN	3%	1/1000
	(111-271 0020/02	1 0320/301 0320 ONL1)					R509	1-260-328-11	CARBON	1K	5%	1/2W
R411	1-249-393-11	CARBON	10	5%	1/4W	<u> </u>	R510	1-215-908-00	METAL OXIDE	33	5%	3W
R414	1-216-813-11	METAL CHIP	220	5%	1/10W		R512	1-243-535-71	METAL OXIDE	220	5%	3W
11717		FS320/36FS320 ONLY)	220	370	1/1044		R513	1-216-841-11	METAL CHIP	47K	5%	1/10W
R416	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R514	1-216-833-11	METAL CHIP	10K	5%	1/10W
R422	1-218-867-11	METAL CHIP	6.8K		1/10W		INO I T	1-210-000-11	WE TAL OTH	1011	370	1/1000
11422	1-210-007-11	WIL TAL OTH	0.01	0.5076	1/1044		R517	1-249-415-11	CARBON	680	5%	1/4W
R424	1-216-821-11	METAL CHIP	1K	5%	1/10W		R518	1-216-833-11	METAL CHIP	10K	5%	1/10W
R425	1-216-823-11	METAL CHIP	1.5K	5%	1/10W		R519	1-249-411-11	CARBON	330	5%	1/4W
R429	1-216-841-11	METAL CHIP	47K	5%	1/10W		R520	1-243-531-71	METAL OXIDE	100	5%	3W
R450	1-216-833-11	METAL CHIP	10K	5%	1/10W		R521	1-245-551-71	METAL CHIP	330	5%	1/10W
R457	1-216-809-11	METAL CHIP	100	5%	1/10W		1\021	(KV-27FS320 Of		330	J /0	1/1000
11457	1-210-003-11	WE TAL OTH	100	J /0	1/1000			(INV-271 3320 OI	NLI)			
R458	1-216-809-11	METAL CHIP	100	5%	1/10W		R521	1-216-817-11	METAL CHIP	470	5%	1/10W
R463	1-216-864-11	SHORT CHIP						(ALL EXCEPT K	V-27FS320)			
R464	1-216-837-11	METAL CHIP	22K	5%	1/10W	<u>^</u>	R523	1-216-837-11	METAL CHIP	22K	5%	1/10W
R466	1-216-837-11	METAL CHIP	22K	5%	1/10W			(KV-27FS320 Of	NLY)			
R467	1-216-837-11	METAL CHIP	22K	5%	1/10W	<u>^</u>	R523	1-216-834-11	METAL CHIP	12K	5%	1/10W
								(ALL EXCEPT K				
R468	1-216-837-11	METAL CHIP	22K	5%	1/10W							
R469	1-216-837-11	METAL CHIP	22K	5%	1/10W	<u>^</u> !\	R524	1-216-833-11	METAL CHIP	10K	5%	1/10W
R470	1-216-837-11	METAL CHIP	22K	5%	1/10W	<u>^</u>	R525	1-218-869-11	METAL CHIP	8.2K	0.50%	1/10W
R471	1-216-837-11	METAL CHIP	22K	5%	1/10W	<u>^</u>	R528	1-218-879-11	METAL CHIP	22K	0.50%	1/10W
R472	1-249-441-11	CARBON	100K	5%	1/4W		R529	1-218-879-11	METAL CHIP	22K	0.50%	1/10W
						M	R530	1-218-873-11	METAL CHIP	12K	0.50%	1/10W
R473	1-216-837-11	METAL CHIP	22K	5%	1/10W							
R474	1-216-837-11	METAL CHIP	22K	5%	1/10W		R531	1-218-901-11	METAL CHIP	180K	0.50%	1/10W
R475	1-216-841-11	METAL CHIP	47K	5%	1/10W			(KV-27FS320 Of	NLY)			
R477	1-216-819-11	METAL CHIP	680	5%	1/10W	M	R531	1-218-889-11	METAL CHIP	56K	0.50%	1/10W
R478	1-216-833-11	METAL CHIP	10K	5%	1/10W			(ALL EXCEPT K	V-27FS320)			
							R532	1-216-810-11	METAL CHIP	120	5%	1/10W
R479	1-216-821-11	METAL CHIP	1K	5%	1/10W							
11413						1	DEOO	4 045 070 44	METAL OVIDE	4-17	F 0/	4147
R480	1-216-809-11	METAL CHIP	100	5%	1/10W		R533	1-215-879-11	METAL OXIDE	47K	5%	1W



	REF. NO.	PART NO.	DESCRIPTION	VALU	ES		REF. NO.	PART NO.	DESCRIPTION	VALU	IES	
	R535	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R592	1-243-803-71	METAL OXIDE	0.33	5%	1W
Ţ	R536	1-260-288-11	CARBON	0.47	5%	1/2W	R593	1-249-417-11	CARBON	1K	5%	1/4W
Ŷ	R537	1-260-288-11	CARBON	0.47	5%	1/2W		(KV-27FS320 O				
_	R538	1-247-887-00	CARBON	220K	5%	1/4W	R593	1-249-420-11	CARBON	1.8K	5%	1/4W
	R541	1-216-841-11	METAL CHIP	47K	5%	1/10W	1.000	(ALL EXCEPT K			0,0	.,
	R542	1-216-833-11	METAL CHIP	10K	5%	1/10W	R594	1-249-429-11	CARBON	10K	5%	1/4W
î.	R543	1-249-377-11	CARBON	0.47	5%	1/4W	R595	1-247-891-00	CARBON	330K	5%	1/4W
<u>: \</u>	R544	1-249-377-11	METAL CHIP	1K	5%	1/4VV 1/10W	R596	1-247-091-00	CARBON	100K	5%	1/4W
ı\	R545	1-249-387-11	CARBON	3.3	5%	1/4W	R597	1-216-864-11	SHORT CHIP	1001	J /0	1/4 VV
<u>: \</u>	R546	1-249-307-11	METAL	22K	1%	1/4VV 1/4W	R598	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
	N340	(KV-27FS320 Of		ZZN	1 /0	1/444	1030	1-210-007-11	WE TAL CHIF	0.01	0.50 /6	1/1000
		•					R599	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
	R546	1-215-447-00	METAL	12K	1%	1/4W	R603	1-219-513-11	METAL	4.7M	5%	1/2W
		(ALL EXCEPT K	,					•	(V-34FS120 L. SOUTH)			
	R547	1-215-445-00	METAL	10K	1%	1/4W	R604	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R548	1-215-453-00	METAL	22K	1%	1/4W	R606	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R549	1-215-429-00	METAL	2.2K	1%	1/4W						
							R607	1-216-833-11	METAL CHIP	10K	5%	1/10W
<u> </u>	R550	1-249-377-11	CARBON	0.47	5%	1/4W	R608	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R551	1-215-873-00	METAL OXIDE	4.7K	5%	1W	R609	1-216-389-11	METAL OXIDE	1	5%	3W
	R552	1-243-608-71	METAL OXIDE	1.5K	5%	3W	R610	1-216-833-11	METAL CHIP	10K	5%	1/10W
		(KV-27FS320 Of	NLY)				R611	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R552	1-215-915-21	METAL OXIDE	470	5%	3W						
		(ALL EXCEPT K	V-27FS320)				R612	1-260-131-11	CARBON	470K	5%	1/2W
							R613	1-216-833-11	METAL CHIP	10K	5%	1/10W
<u> </u>	R553	1-249-377-11	CARBON	0.47	5%	1/4W	⚠ R615	1-202-933-61	FUSIBLE	0.1	10%	1/2W
	R559	1-216-805-11	METAL CHIP	47	5%	1/10W	R616	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
	R561	1-215-445-00	METAL	10K	1%	1/4W	R617	1-216-821-11	METAL CHIP	1K	5%	1/10W
<u> </u>	R563	1-214-798-21	METAL	1.8	1%	1/2W						
	R564	1-247-895-91	CARBON	470K	5%	1/4W	R618	1-216-864-11	SHORT CHIP			
							R619	1-249-377-11	CARBON	0.47	5%	1/4W
	R565	1-215-889-00	METAL OXIDE	330	5%	2W	R620	1-215-857-11	METAL OXIDE	10	5%	1W
	R566	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W	R625	1-216-817-11	METAL CHIP	470	5%	1/10W
Ŷ	R567	1-249-385-11	CARBON	2.2	5%	1/4W	R626	1-218-869-11	METAL CHIP	8.2K	0.50%	1/10W
	R568	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W						
	R569	1-218-871-11	METAL CHIP	10K	0.50%	1/10W	R628	1-260-131-11	CARBON	470K	5%	1/2W
							R629	1-245-478-21	METAL	470K	1%	1/4W
	R570	1-216-833-11	METAL CHIP	10K	5%	1/10W	R630	1-245-478-21	METAL	470K	1%	1/4W
	R571	1-216-833-11	METAL CHIP	10K	5%	1/10W	R631	1-218-875-11	METAL CHIP	15K	0.50%	1/10W
	R572	1-216-833-11	METAL CHIP	10K	5%	1/10W	R632	1-218-823-11	METAL CHIP	100	0.50%	1/10W
	R573	1-216-837-11	METAL CHIP	22K	5%	1/10W						
Ŷ	R574	1-214-798-21	METAL	1.8	1%	1/2W	R640	1-249-417-11	CARBON	1K	5%	1/4W
							R641	1-216-389-11	METAL OXIDE	1	5%	3W
	R576	1-243-523-71	METAL OXIDE	22	5%	3W	R647	1-211-992-11	METAL CHIP	91		1/10W
	R580	1-216-845-11	METAL CHIP	100K	5%	1/10W	R648	1-216-864-11	SHORT CHIP	-		
	R583	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R650	1-216-845-11	METAL CHIP	100K	5%	1/10W
	R584	1-249-429-11	CARBON	10K	5%	1/4W		. = . 5 7 10 11			0,0	.,
	R586	1-216-845-11	METAL CHIP	100K	5%	1/10W	R651	1-216-845-11	METAL CHIP	100K	5%	1/10W
	. 1000	. 210 010 11		13011	0 /0	., 1011	R658	1-249-393-11	CARBON	10	5%	1/4W
								. = 10 000 11	37 11 ND 31 N	10	U / U	1/ 1 V V
	R589	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R659	1-249-393-11	CARBON	10	5%	1/4W





	REF. NO.	PART NO.	DESCRIPTION	VALUI	ES			REF. NO.	PART NO.	DESCRIPTION	VALUE	S	
	R661	1-249-415-11	CARBON	680	5%	1/4W	\triangle	T604	1-437-606-12	COVERTER TRANSFOR	RMER		
	R667	1-216-833-11	METAL CHIP	10K	5%	1/10W	\triangle		1-443-402-11	TRANSFORMER, LINE			
	R668	1-249-413-11	CARBON	470	5%	1/4W				,			
	R670	1-216-833-11	METAL CHIP	10K	5%	1/10W			THERMISTOR				
	R671	1-243-979-71	METAL OXIDE	0.1	5%	2W							
								TH501	1-800-193-00	THERMISTOR			
	R672	1-243-979-71	METAL OXIDE	0.1	5%	2W		THP501	1-803-970-11	THERMISTOR, POSITIN	/E		
<u>^</u>	R674	1-220-926-11	FUSIBLE	0.47	10%	1/2W			•	/-34FS120 L. SOUTH)	_		
	R681	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		THP501	1-803-540-11	THERMISTOR, POSITIN	/E		
	R686	1-240-303-31	CEMENTED	0.22	5%	10W			(KV-34FS120 L. S	SOUTH ONLY)			
	R687	1-220-797-11	CEMENTED	0.47	5%	10W			<u>TUNER</u>				
	R688	1-240-303-31	CEMENTED	0.22	5%	10W	^						
	R691	1-216-837-11	METAL CHIP	22K	5%	1/10W	<u> </u>	TU001	8-598-593-50	TUNER, FSS BTF-WA42	21		
	R692	1-216-837-11	METAL CHIP	22K	5%	1/10W							
	R694	1-216-837-11	METAL CHIP	22K	5%	1/10W			<u>VARISTOR</u>				
	R699	1-247-289-00	METAL OXIDE	8.2M	5%	1W	À	VDR600	1-810-974-21	VARISTOR			
		(KV-34FS120 L. S						1511000		/-34FS120 L. SOUTH)			
			,				\wedge	VDR600	1-804-995-11	VARISTOR			
	R932	1-218-285-11	METAL CHIP	75	5%	1/10W			(KV-34FS120 L. S				
	R934	1-218-285-11	METAL CHIP	75	5%	1/10W		_	(,			
	R953	1-218-285-11	METAL CHIP	75	5%	1/10W	116						
	R1510	1-216-833-11	METAL CHIP	10K	5%	1/10W							
	R1511	1-216-833-11	METAL CHIP	10K	5%	1/10W			(KV-27FS320 ON	,			
		RELAY						*	A-1415-717-A (ALL EXCEPT KV	C (VAR) BOARD, MO /-27FS320)	DUNTED		
٨	RY501	1-755-198-11	RELAY, AC POWER										
<u> </u>	RY600	1-755-395-11	RELAY (AC POWER)				<u>^</u>		1-900-803-22	WIRE ASSY, G2 LEAD			
		<u>SWITCH</u>							4-382-854-11	SCREW (M3X10), P, SW	/ (+)		
	CE04	1 570 707 11	CWITCH LEVED						CAPACITOR				
	S501 S502	1-572-707-11 1-572-707-11	SWITCH, LEVER SWITCH, LEVER					0704	4 400 047 44	FLECT	47F	200/	25//
	3302	1-3/2-707-11	SWITCH, LEVER					C701 C702	1-126-947-11 1-136-497-81	ELECT FILM	47μF 0.1μF	20% 5%	35V 50V
		TRANSFORMER						C702	1-136-497-61	ELECT	υ. τμε 47μF	20%	35V
		INANSI ONWEN						C703	1-120-347-11	ELECT	47μι 10μF	20%	250V
	T501	1-433-836-11	TRANSFORMER, HOR	IZONTAL [DRIVE			C705	1-107-652-11	ELECT	10μF	20%	250V
<u>(İ</u>	T502	1-435-869-11	TRANFORMER, FERRI	TE (PMT)				0700	1 107 002 11	LLLOT	ιομι	2070	2001
<u> </u>	T503	1-453-310-11	FBT ASSY NX-4521//X	4J4				C706	1-137-528-11	MYLAR	0.1µF	10%	250V
		(KV-27FS320 ONL	•					C708	1-126-235-11	ELECT	100µF	20%	16V
<u> </u>	T503	1-453-338-41	FBT ASSY NX-4600/X4	IJ4				C709	1-126-964-11	ELECT	10µF	20%	50V
		(ALL EXCEPT KV-	·27FS320)					C710	1-126-964-11	ELECT	10μF	20%	50V
^								C711	1-102-074-00	CERAMIC	0.001µF	10%	50V
<u> </u>	T505	1-433-850-11	TRANSFORMER, HOR	IZONTAL L	INEAR						r		
^		(KV-27FS320 ONL	•					C713	1-126-964-11	ELECT	10μF	20%	50V
<u> </u>	T505	1-435-098-21	TRANSFORMER, HOR	IZONTAL L	INEAR			C714	1-126-947-11	ELECT	47μF	20%	35V
Δ	T 000	(ALL EXCEPT KV-	,	IDD\/				C715	1-162-114-00	CERAMIC	0.0047µF		2KV
À	T603	1-437-783-11	TRANSFORMER, STAN	NDRA				C716	1-162-114-00	CERAMIC	0.0047µF		2KV
		(ALL EXCEPT KV-	-34FS120 L. SOUTH)					C719	1-126-947-11	ELECT	47µF	20%	35V
\triangle	T603	1-439-854-11 (KV-34FS120 L. S	TRANSFORMER, STAN	NDBY									
		(114 0-11 0120 L. 0	OUTH ONLY				I						





	REF. NO.	PART NO.	DESCRIPTION	VALU	ES			REF. NO.	PART NO.	DESCRIPTION	VALUI	ES	
		CONNECTOR						R710	1-247-807-31	CARBON	100	5%	1/4W
								R711	1-260-328-11	CARBON	1K	5%	1/2W
*	CN701	1-564-506-11	PLUG, CONNECTOR	3P				R712	1-260-328-11	CARBON	1K	5%	1/2W
	CN702	1-695-915-11	TAB (CONTACT)					R713	1-260-328-11	CARBON	1K	5%	1/2W
	CN703	1-695-915-11	TAB (CONTACT)					R714	1-260-087-11	CARBON	100	5%	1/2W
	CN704	1-785-879-11	CONNECTOR, ONE TO										
*	CN705	1-564-511-11	PLUG, CONNECTOR	8P				R715	1-260-132-11	CARBON	560K	5%	1/2W
		(KV-27FS320 ON	ILY)					R716	1-260-087-11	CARBON	100	5%	1/2W
								R717	1-216-375-00	METAL OXIDE	3.3	5%	2W
*	CN705	1-564-512-11	PLUG, CONNECTOR	8P					(KV-27FS320 ON				
		(ALL EXCEPT K)	,					R718	1-216-373-11	METAL OXIDE	2.2	5%	2W
*	CN706	1-564-510-11	PLUG, CONNECTOR	7P				R719	1-215-888-00	METAL OXIDE	220	5%	2W
		DIODE						R720	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
	D704	0.740.004.00	DIODE	40000				R721	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
	D701	8-719-901-83	DIODE	1SS83				R722	1-247-807-31	CARBON	100	5%	1/4W
	D702	8-719-901-83	DIODE	1SS83				R723	1-247-807-31	CARBON	100	5%	1/4W
	D703	8-719-901-83	DIODE	1SS83				R724	1-247-807-31	CARBON	100	5%	1/4W
	D704	8-719-074-25	DIODE	PG104R				IVI Z-T	1 247 007 01	ONINDON	100	0 /0	1/ 4 4 4
	D705	8-719-108-12	DIODE	RD9.1E	IV			R725	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
		10						R726	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
		<u>IC</u>						R727	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
	IC701	6-705-638-01	IC	BD7941	AT-V5			R731	1-216-864-11	SHORT CHIP	2.2.1	070	1,1011
	IC702	8-759-562-43	IC	TDA610	8JF/N1B			R732	1-216-833-11	METAL CHIP	10K	5%	1/10W
	IC703	8-759-701-59	IC	NJM78N	109FA							0,0	.,
								R733	1-216-833-11	METAL CHIP	10K	5%	1/10W
		<u>JACK</u>						R734	1-216-809-11	METAL CHIP	100	5%	1/10W
Δ			000//== 00=							-			
<u> </u>	J701	1-451-470-21	SOCKET, CRT						VARIABLE RESI	<u>STOR</u>			
		COIL					<u>/</u>	RV701	1-241-656-11	RES, ADJ, METAL FIL	M 110M		
	1.704	4 440 400 04	INDUCTOR	400				RV702	1-238-019-11	RES, ADJ, METAL FIL			
	L701	1-410-482-31	INDUCTOR	100µH			I 🛌	_					
		TRANSISTOR					$\sqcup I I$./					
		TRANSISTOR					╽╚┸	<u>v 1</u>					
	Q700	8-729-422-27	TRANSISTOR	2SD601	A-Q			*	A-1056-113-A	M (VAR) BOARD, I	MOUNTED		
	Q701	8-729-422-27	TRANSISTOR	2SD601	A-Q			*	(KV-32FS320 ON		MOUNTED		
	Q703	8-729-422-27	TRANSISTOR	2SD601	A-Q				A-1057-456-A	. ,	MOUNTED		
								*	(KV-27FS320 ON	NLT) M (VAR) BOARD, I	MOUNTED		
		RESISTOR								BFS120 L. NORTH ONLY			
	R700	1 240 422 11	CARBON	22K	5%	1/4W		*		M (VAR) BOARD, I			
	R700	1-249-433-11 1-216-833-11	METAL CHIP	10K	5% 5%	1/4VV 1/10W			(KV-36FS320 ON				
	R702	1-216-633-11	METAL CHIP	150	5% 5%	1/10W		*	1	M (VAR) BOARD, I	MOUNTED		
	R702	1-216-809-11	METAL CHIP	100	5% 5%	1/10W			(KV-32FS120, 34				
	R704	1-249-419-11	CARBON	1.5K	5% 5%	1/10VV 1/4W				,			
	IVI U T	ı⁻∠⊤ℋ∜IŰ*II	OUIDOIA	1.01\	J /0	1/ T VV			CAPACITOR				
	R705	1-249-429-11	CARBON	10K	5%	1/4W		COO2		CEDAMIC CLID	22nE	5 0/	50\/
	R706	1-249-381-11	CARBON	1	5%	1/4W		C003 C004	1-162-919-11	CERAMIC CHIP	22pF 47pE	5% 5%	50V
	R707	1-249-383-11	CARBON	1.5	5%	1/4W			1-162-923-11	CERAMIC CHIP	47pF	5% 10%	50V
	R708	1-247-807-31	CARBON	100	5%	1/4W		C005 C006	1-162-966-11	CERAMIC CHIP ELECT	0.0022µF		50V 16V
	R709	1-247-807-31	CARBON	100	5%	1/4W		C006	1-126-767-11 1-164-315-11	CERAMIC CHIP	1000µF 470pF	20% 5%	50V
							1	0007	1-104-919-11	CENAIVIIC CHIP	41 UPF	J 70	JU V



REF. NO.	PART NO.	DESCRIPTION	VALUE	s		REF. NO.	PART NO.	DESCRIPTION	VALUE	S	
C008	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C319	1-216-864-11	SHORT CHIP			
C009	1-164-230-11	CERAMIC CHIP	220pF	5%	50V		(KV-32FS120,	34FS120, 36FS120, 38FS120	L. NORTH	ONLY)	
C010	1-127-573-11	CERAMIC CHIP	1μF	10%	16V	C320	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C011	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V		(KV-27FS320,	32FS320, 36FS320 ONLY)	•		
C012	1-162-968-11	CERAMIC CHIP	0.0047µF		50V	C320	1-216-864-11	SHORT CHIP			
								34FS120, 36FS120, 38FS120	L. NORTH	ONLY)	
C014	1-127-573-11	CERAMIC CHIP	1μF	10%	16V		,	, ,		,	
C015	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C321	1-126-947-11	ELECT	47µF	20%	35V
C019	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V			32FS320, 36FS320 ONLY)			
C021	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C322	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C022	1-126-964-11	ELECT	10μF	20%	50V	C325	1-162-967-11	CERAMIC CHIP	0.0033µF		50V
			•			C326	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C023	1-126-935-11	ELECT	470µF	20%	16V				•		
C033	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C330	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C041	1-126-964-11	ELECT	10µF	20%	50V	C337	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C047	1-164-315-11	CERAMIC CHIP	470pF	5%	50V	C351	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C048	1-104-665-11	ELECT	100µF	20%	25V	C370	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
						C390	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C064	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V				**************************************		
C090	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C511	1-126-964-11	ELECT	10μF	20%	50V
C091	1-126-947-11	ELECT	47µF	20%	35V	C542	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C092	1-126-947-11	ELECT	47µF	20%	35V	C551	1-127-573-11	CERAMIC CHIP	1μF	10%	16V
C094	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C552	1-124-779-00	ELECT CHIP	10μF	20%	16V
0001	1 102 070 11	0210 01111	ο.ο.μ.	1070	201	C559	1-216-864-11	SHORT CHIP	1041	2070	
C095	1-126-947-11	ELECT	47µF	20%	35V	0000	1 210 001 11	OHOTEL OHII			
C096	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C665	1-104-665-11	ELECT	100µF	20%	25V
C097	1-126-947-11	ELECT	47µF	20%	35V	C666	1-104-665-11	ELECT	100µF	20%	25V
C098	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C780	1-162-926-11	CERAMIC CHIP	82pF	5%	50V
C099	1-126-947-11	ELECT	47µF	20%	35V	C781	1-162-926-11	CERAMIC CHIP	82pF	5%	50V
0000	1 120 0 11 11	22201		2070	001	C782	1-162-926-11	CERAMIC CHIP	82pF	5%	50V
C100	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	0.02	1 102 020 11	OLIV WING OTHER	02р.	070	001
C101	1-126-940-11	ELECT	330µF	20%	25V	C3049	1-127-573-11	CERAMIC CHIP	1μF	10%	16V
C102	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V	C3051	1-126-964-11	ELECT	10μF	20%	50V
C103	1-126-947-11	ELECT	47µF	20%	35V	C3052	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C115	1-164-739-11	CERAMIC CHIP	560pF	5%	50V	C3053	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
0110	1 101 100 11	0210 01111	0000	070	001	C3054	1-127-573-11	CERAMIC CHIP	1μF	10%	16V
C116	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	00001	1 121 010 11	OLIV WING OTHER	.4.	1070	
C304	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C3057	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C305	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C3307	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C306	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3314	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C313	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	00011		32FS320, 36FS320 ONLY)	0.1μ1	1070	101
0010	1 107 020 11	OLIV WING OTH	0.1μ1	1070	101	C3315	1-126-947-11	ELECT	47µF	20%	35V
C316	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	00010		32FS320, 36FS320 ONLY)	-τ/μι	2070	00 V
0310		2FS320, 36FS320 ONLY)	υ. ιμι	10 /0	101		(111-271 0020,	021 0020, 301 0020 ONL1)			
C317	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C3509	1-124-779-00	ELECT CHIP	10µF	20%	16V
0011		2FS320, 36FS320 ONLY)	υ. ιμι	10/0	101	C3519	1-124-779-00	CERAMIC CHIP	0.047μF	10%	16V
C318	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	03313	(ALL EXCEPT		0.047μι	10 /0	10 V
0310		2FS320, 36FS320 ONLY)	υ. ιμι	10 /0	101	C3519	1-216-864-11	SHORT CHIP			
	(11.4-211 0020, 0	21 0020, 001 0020 OINLT)				00018	(KV-27FS320 (
C319	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		(11.1-211 3320 (/I1⊑1 <i>]</i>			
0018		2FS320, 36FS320 ONLY)	υ. τμι	10/0	101	C3520	1-126-933-11	ELECT	100µF	20%	16V
	(11.4-2113320, 3	21 0020, 001 0020 OINLT)				C3534	1-120-955-11	CERAMIC CHIP	0.0022µF		50V
		0/0450400/0650400/065		_		00004	1-102-300-11	OLIVAWIO OF III	υ.υυΖΖμΓ	10/0	JU V



REF. NO.	PART NO.	DESCRIPTION	VALUE	S		REF. NO.	PART NO.	DESCRIPTION	VALUES
C3536	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V	D045	8-719-977-28	DIODE	DTZ10B
	(ALL EXCEPT KV	/-27FS320)				D050	8-719-510-02	DIODE	D1NS4
C3536	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V	D051	6-500-567-21	DIODE	10ERB20-TB5
	(KV-27FS320 ON	LY)				D052	8-719-069-55	DIODE	UDZSTE-175.6B
C3539	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	D110	8-719-404-50	DIODE	MA111-TX
			•						
C3542	1-115-414-11	CERAMIC CHIP	820pF		25V	D250	1-803-974-21	VARISTOR, CHIP	(1608)
	(ALL EXCEPT KV	/-27FS320)	•			D304	1-803-974-21	VARISTOR, CHIP	(1608)
C3553	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	D351	6-500-697-01	DIODE	UDZSTE-173.3B
C3554	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	D390	8-719-404-50	DIODE	MA111-TX
C3560	1-216-833-11	METAL CHIP	10K	5%	1/10W	D512	8-719-404-50	DIODE	MA111-TX
C3611	1-126-933-11	ELECT	100µF	20%	16V	D513	8-719-404-50	DIODE	MA111-TX
C3612	1-126-933-11	ELECT	100µF	20%	16V	D558	8-719-404-50	DIODE	MA111-TX
C3613	1-126-933-11	ELECT	100µF	20%	16V	D559	8-719-404-50	DIODE	MA111-TX
C3638	1-104-665-11	ELECT	100µF	20%	25V	D762	8-719-404-50	DIODE	MA111-TX
C3901	1-126-933-11	ELECT	100μF	20%	16V	D763	8-719-404-50	DIODE	MA111-TX
C3902	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	D772	8-719-404-50	DIODE	MA111-TX
C3984	1-126-964-11	ELECT	10μF	20%	50V	D773	8-719-404-50	DIODE	MA111-TX
	(KV-27FS320, 32	FS320, 36FS320 ONLY)				D782	8-719-404-50	DIODE	MA111-TX
C3988	1-126-964-11	ELECT	10μF	20%	50V	D783	8-719-404-50	DIODE	MA111-TX
	(KV-27FS320, 32	FS320, 36FS320 ONLY)				D3305	1-803-974-21	VARISTOR, CHIP	(1608)
							(KV-27FS320, 32	PFS320, 36FS320 ONLY)	
C3989	1-126-964-11	ELECT	10μF	20%	50V				
	(KV-27FS320, 32	FS320, 36FS320 ONLY)				D3306	1-803-974-21	VARISTOR, CHIP	(1608)
C3990	1-126-964-11	ELECT	10μF	20%	50V		(KV-27FS320, 32	PFS320, 36FS320 ONLY)	
	(KV-27FS320, 32	FS320, 36FS320 ONLY)				D3307	1-803-974-21	VARISTOR, CHIP	(1608)
C3991	1-126-964-11	ELECT	10μF	20%	50V		(KV-27FS320, 32	PFS320, 36FS320 ONLY)	
	(KV-27FS320, 32	FS320, 36FS320 ONLY)				D3308	1-803-974-21	VARISTOR, CHIP	(1608)
							(KV-27FS320, 32	PFS320, 36FS320 ONLY)	
C3994	1-126-964-11	ELECT	10µF	20%	50V	D3509	1-803-974-21	VARISTOR, CHIP	(1608)
	(KV-27FS320, 32	FS320, 36FS320 ONLY)							
C3995	1-124-778-00	ELECT CHIP	22µF	20%	6.3V				
C6003	1-127-573-11	CERAMIC CHIP	1μF	10%	16V		FERRITE BEAD		
						ED202	1 460 540 24	INDLICTOR	4
	<u>CONNECTOR</u>					FB302	1-469-549-21	INDUCTOR	1μΗ
* CN001	1-560-124-00	PLUG, CONNECTOR	(2.5MM)	4P					
CINOUI		FS320, 32FS120, 34FS12	. ,	41			CILTED		
* CN002	1-764-812-12	PLUG, CONNECTOR	J OINLI)	11P			<u>FILTER</u>		
CINUUZ		FS120 L. NORTH, 36FS32	00 ONII V)	ПГ		FL001	1-234-126-21	FERRITE	0μΗ
* CN302	1-564-515-11	PLUG, CONNECTOR	O ONLI)	12P					·
CNOUZ		FS320, 36FS320 ONLY)		121			<u>IC</u>		
	(177-271 0020, 02	1 0020, 301 0020 ONL1)							
	DIODE					IC001	6-804-652-01	IC	M65585µF-104FP
	DIODE					IC002	6-704-607-01	IC	M24C16-WMN6T(B)
D002	8-719-069-55	DIODE	UDZSTE-	175.6B		IC003	8-759-352-91	IC	PST9143NL
D004	8-719-977-28	DIODE	DTZ10B			IC004	8-759-533-85	IC	L88M05T-FA-TL
D005	8-719-977-28	DIODE	DTZ10B			IC301	6-701-105-01	IC	NJM2750M-TE2
D006	8-719-069-55	DIODE	UDZSTE-	175.6B			(KV-2/FS320, 32	2FS320, 36FS320 ONLY)	
D044	8-719-977-28	DIODE	DTZ10B						



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALU	IES	
IC565	8-759-700-44	IC	NJM2902M	Q519	8-729-422-27	TRANSISTOR	2SD601A	A-Q	
IC633	8-759-641-26	IC	NJM2391DL1-33(TE1)	Q533	8-729-424-02	TRANSISTOR	2SB709A	A-QRS-TX	
IC3001	8-759-443-11	IC	NJM2283M-TE1	Q761	8-729-422-27	TRANSISTOR	2SD601A	A-Q	
	(KV-27FS320, 32	2FS320, 36FS320 ONLY)		Q762	8-729-422-27	TRANSISTOR	2SD601A	A-Q	
				Q763	8-729-422-27	TRANSISTOR	2SD601A	4-Q	
	CHIP CONDUCT	<u>'OR</u>		Q771	8-729-422-27	TRANSISTOR	2SD601 <i>A</i>	4-O	
JR44	1-216-864-11	SHORT CHIP		Q772	8-729-422-27	TRANSISTOR	2SD601/		
JR317	1-216-809-11	METAL CHIP	100 5% 1/10W	Q773	8-729-422-27	TRANSISTOR	2SD601/		
JR318	1-216-864-11	SHORT CHIP		Q781	8-729-422-27	TRANSISTOR	2SD601/		
JR546	1-216-864-11	SHORT CHIP		Q782	8-729-422-27	TRANSISTOR	2SD601/		
JR3503	1-216-864-11	SHORT CHIP		4,02	0 120 122 21	THU INCIONON	2020011		
	COIL			Q783	8-729-422-27	TRANSISTOR	2SD601A		
	COIL			Q860	8-729-422-27	TRANSISTOR	2SD601A		
L002	1-234-126-21	FERRITE	0μΗ	Q3005	8-729-424-02	TRANSISTOR	2SB709A		
L005	1-234-126-21	FERRITE	0μΗ	Q3300	8-729-422-27	TRANSISTOR	2SD601A		
L006	1-414-273-11	INDUCTOR	100µH	Q3304	8-729-424-02	TRANSISTOR	2SB709A	A-QRS-TX	
L007	1-414-267-21	INDUCTOR	10µH						
L011	1-234-126-21	FERRITE	0μΗ	Q3502	8-729-422-27	TRANSISTOR	2SD601A		
				Q6000	8-729-422-27	TRANSISTOR	2SD601A	A-Q	
L301	1-469-555-21	INDUCTOR	10μH		RESISTOR				
		2FS320, 36FS320 ONLY)			KESISTOK				
L611	1-469-561-21	INDUCTOR	100µH	R002	1-216-864-11	SHORT CHIP			
L612	1-469-561-21	INDUCTOR	100µH	R003	1-216-821-11	METAL CHIP	1K	5%	1/10W
L613	1-469-561-21	INDUCTOR	100µH	R004	1-216-817-11	METAL CHIP	470	5%	1/10W
L710	1-410-387-11	INDUCTOR	33µH	R005	1-400-427-21	FERRITE	0µH		
				R006	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
L711	1-410-387-11	INDUCTOR	33µH						
L712	1-410-387-11	INDUCTOR	33µH	R007	1-400-427-21	FERRITE	0μH		
L3003	1-234-126-21	FERRITE	0μH	R008	1-216-864-11	SHORT CHIP			
L3004	1-234-126-21	FERRITE	0μH	R009	1-216-864-11	SHORT CHIP			
L3609	1-414-267-21	INDUCTOR	10μH	R010	1-216-813-11	METAL CHIP	220	5%	1/10W
	TD 4 1 10 10 TO D				(KV-27FS320, 3	2FS320, 36FS320 ONLY)			
	TRANSISTOR			R015	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q002	8-729-422-27	TRANSISTOR	2SD601A-Q	R027	1-218-887-11	METAL CHIP	47K	0.50%	1/10W
Q004	8-729-422-27	TRANSISTOR	2SD601A-Q	R028	1-216-813-11	METAL CHIP	220	5%	1/10W
Q008	8-729-422-27	TRANSISTOR	2SD601A-Q	R030	1-216-813-11	METAL CHIP	220	5%	1/10W
Q301	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R031	1-216-813-11	METAL CHIP	220	5%	1/10W
Q303	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R032	1-216-813-11	METAL CHIP	220	5%	1/10W
Q305	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX						
Q306	8-729-422-27	TRANSISTOR	2SD601A-Q	R034	1-216-864-11	SHORT CHIP			
Q307	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R035	1-216-809-11	METAL CHIP	100	5%	1/10W
Q316	8-729-422-27	TRANSISTOR	2SD601A-Q	R037	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q390	8-729-422-27	TRANSISTOR	2SD601A-Q	R038	1-216-813-11	METAL CHIP	220	5%	1/10W
0004	0.700.400.07	TRANSISTOR	0000044.0	R039	1-216-813-11	METAL CHIP	220	5%	1/10W
Q391	8-729-422-27	TRANSISTOR	2SD601A-Q	R040	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q503	8-729-422-27	TRANSISTOR	2SD601A-Q	R041	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q504	8-729-422-27	TRANSISTOR	2SD601A-Q	R042	1-216-813-11	METAL CHIP	220	5%	1/10W
Q505	8-729-422-27	TRANSISTOR	2SD601A-Q	R043	1-216-813-11	METAL CHIP	220	5%	1/10W
Q515	8-729-422-27	TRANSISTOR	2SD601A-Q		5 5 15 11	01		3,0	.,



REF. NO.	PART NO.	DESCRIPTION	VALU	ES		REF. NO.	PART NO.	DESCRIPTION	VALUES	s	
R044	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R310	1-216-821-11	METAL CHIP	1K	5%	1/10W
R045	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R311	1-216-813-11	METAL CHIP	220	5%	1/10W
R047	1-216-813-11	METAL CHIP	220	5%	1/10W	R312	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R048	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R313	1-216-864-11	SHORT CHIP			
R049	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R314	1-216-833-11	METAL CHIP	10K	5%	1/10W
R050	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R318	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R053	1-216-837-11	METAL CHIP	22K	5%	1/10W	R319	1-216-813-11	METAL CHIP		5%	1/10W
R054	1-216-837-11	METAL CHIP	22K	5%	1/10W	R320	1-216-825-11	METAL CHIP		5%	1/10W
R059	1-216-821-11	METAL CHIP	1K	5%	1/10W	R321	1-216-864-11	SHORT CHIP			
R060	1-216-813-11	METAL CHIP	220	5%	1/10W	R322	1-216-864-11	SHORT CHIP			
R061	1-216-833-11	METAL CHIP	10K	5%	1/10W	R324	1-216-821-11	METAL CHIP	1K	5%	1/10W
R062	1-216-817-11	METAL CHIP	470	5%	1/10W	R325	1-216-864-11	SHORT CHIP			
R063	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R326	1-400-427-21	FERRITE	0μΗ		
R070	1-216-813-11	METAL CHIP	220	5%	1/10W	R329	1-216-813-11	METAL CHIP		5%	1/10W
R071	1-216-809-11	METAL CHIP	100	5%	1/10W			2FS320, 36FS320 ONLY)			
	(KV-27FS320, 3	2FS320, 36FS320 ONLY)									
						R331	1-216-864-11	SHORT CHIP			
R076	1-216-809-11	METAL CHIP	100	5%	1/10W	R332	1-216-864-11	SHORT CHIP			
R080	1-216-833-11	METAL CHIP	10K	5%	1/10W	R333	1-216-813-11	METAL CHIP	220	5%	1/10W
R081	1-216-841-11	METAL CHIP	47K	5%	1/10W			2FS320, 36FS320 ONLY)			
R082	1-216-857-11	METAL CHIP	1M	5%	1/10W	R336	1-216-864-11	SHORT CHIP			
R083	1-216-847-11	METAL CHIP	150K	5%	1/10W		(KV-32FS120, 3	4FS120, 36FS120, 38FS120) L. NORTH (ONLY)	
R084	1-216-819-11	METAL CHIP	680	5%	1/10W	R337	1-216-801-11	METAL CHIP		5%	1/10W
R090	1-216-837-11	METAL CHIP	22K	5%	1/10W	R338	1-216-845-11	METAL CHIP	100K	5%	1/10W
R091	1-216-841-11	METAL CHIP	47K	5%	1/10W		(KV-27FS320, 3	2FS320, 36FS320 ONLY)			
R092	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R339	1-216-845-11	METAL CHIP	100K	5%	1/10W
R093	1-216-841-11	METAL CHIP	47K	5%	1/10W		(KV-27FS320, 3	2FS320, 36FS320 ONLY)			
R094	1-216-864-11	SHORT CHIP				R341	1-218-845-11	METAL CHIP	820	0.50%	1/10W
R095	1-216-864-11	SHORT CHIP				R342	1-218-847-11	METAL CHIP	1K	0.50%	1/10W
R096	1-216-813-11	METAL CHIP	220	5%	1/10W	R343	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R097	1-216-813-11	METAL CHIP	220	5%	1/10W	R344	1-216-821-11	METAL CHIP	1K	5%	1/10W
R100	1-216-849-11	METAL CHIP	220K	5%	1/10W	R345	1-216-864-11	SHORT CHIP			
R101	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R346	1-216-864-11	SHORT CHIP			
R110	1-216-813-11	METAL CHIP	220	5%	1/10W		(KV-32FS120, 3-	4FS120, 36FS120, 38FS120	L. NORTH	ONLY)	
R112	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R347	1-216-813-11	METAL CHIP	220	5%	1/10W
R115	1-216-817-11	METAL CHIP	470	5%	1/10W		(KV-27FS320, 3	2FS320, 36FS320 ONLY)			
R116	1-216-853-11	METAL CHIP	470K	5%	1/10W	R347	1-216-864-11	SHORT CHIP			
5							(KV-32FS120, 3	4FS120, 36FS120, 38FS120) L. NORTH (ONLY)	
R131	1-216-813-11	METAL CHIP	220	5%	1/10W	_					
R201	1-216-813-11	METAL CHIP	220	5%	1/10W	R351	1-216-829-11	METAL CHIP		5%	1/10W
R203	1-216-813-11	METAL CHIP	220	5%	1/10W	R352	1-216-853-11	METAL CHIP	470K	5%	1/10W
R211	1-216-864-11	SHORT CHIP				R353	1-216-864-11	SHORT CHIP			
	(KV-27FS320, 3	2FS320, 36FS320 ONLY)				R354	1-216-864-11	SHORT CHIP			
R212	1-216-864-11	SHORT CHIP				R355	1-216-864-11	SHORT CHIP			
R213	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R370	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R309	1-216-833-11	METAL CHIP	10K	5%	1/10W	R371	1-216-849-11	METAL CHIP		5%	1/10W
11000	1 210 000-11	ME I/ LE OI III	1011	J /0	1/1011	NOT I	1 210 070-11	ME II IE OI III	VI	J /0	17 1011



REF. NO.	PART NO.	DESCRIPTION	VALU	ES		REF. NO.	PART NO.	DESCRIPTION	VAL	UES	
R372	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R861	1-216-833-11	METAL CHIP	10K	5%	1/10W
R382	1-216-863-11	METAL CHIP	3.3M	5%	1/10W	R862	1-216-813-11	METAL CHIP	220	5%	1/10W
R511	1-216-864-11	SHORT CHIP				R900	1-216-851-11	METAL CHIP	330K	5%	1/10W
R513	1-216-845-11	METAL CHIP	100K	5%	1/10W	R3057	1-216-821-11	METAL CHIP	1K	5%	1/10W
R515	1-216-845-11	METAL CHIP	100K	5%	1/10W	R3058	1-216-833-11	METAL CHIP	10K	5%	1/10W
R526	1-216-837-11	METAL CHIP	22K	5%	1/10W	R3085	1-216-864-11	SHORT CHIP			
R540	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3086	1-216-821-11	METAL CHIP	1K	5%	1/10W
R547	1-218-891-11	METAL CHIP	68K	0.50%	1/10W	R3087	1-216-809-11	METAL CHIP	100	5%	1/10W
R556	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3115	1-216-864-11	SHORT CHIP			
R557	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3303	1-216-863-11	METAL CHIP	3.3M	5%	1/10W
R634	1-215-905-11	METAL OXIDE	10	5%	3W	R3305	1-216-809-11	METAL CHIP	100	5%	1/10W
R759	1-216-864-11	SHORT CHIP				R3308	1-216-809-11	METAL CHIP	100	5%	1/10W
R760	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R3315	1-216-813-11	METAL CHIP	220	5%	1/10W
R762	1-218-847-11	METAL CHIP	1K	0.50%	1/10W	R3316	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R763	1-216-835-11	METAL CHIP	15K	5%	1/10W	R3317	1-216-813-11	METAL CHIP	220	5%	1/10W
R764	1-218-833-11	METAL CHIP	270	0.50%	1/10W	R3328	1-216-864-11	SHORT CHIP			
R765	1-218-855-11	METAL CHIP	2.2K	0.50%	1/10W	R3334	1-216-813-11	METAL CHIP	220	5%	1/10W
R766	1-216-827-11	METAL CHIP	3.3K	5%	1/10W		(KV-27FS320, 3	2FS320, 36FS320 ONLY)			
R767	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R3334	1-216-864-11	SHORT CHIP			
R768	1-216-821-11	METAL CHIP	1K	5%	1/10W		(KV-32FS120, 3	4FS120, 36FS120, 38FS	120 L. NORT	TH ONLY)	
R769	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3335	1-216-813-11	METAL CHIP	220	5%	1/10W
R770	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		(KV-27FS320, 3	2FS320, 36FS320 ONLY)			
R771	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3390	1-216-864-11	SHORT CHIP			
R772	1-218-847-11	METAL CHIP	1K	0.50%	1/10W	R3391	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R773	1-216-835-11	METAL CHIP	15K	5%	1/10W	R3392	1-216-818-11	METAL CHIP	560	5%	1/10W
R774	1-218-833-11	METAL CHIP	270	0.50%	1/10W	R3393	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R775	1-218-855-11	METAL CHIP	2.2K	0.50%	1/10W	R3394	1-216-833-11	METAL CHIP	10K	5%	1/10W
R776	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R3395	1-216-864-11	SHORT CHIP			
R777	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R3396	1-216-864-11	SHORT CHIP			
R778	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3517	1-218-881-11	METAL CHIP	27K	0.50%	1/10W
R779	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3518	1-216-833-11	METAL CHIP	10K	5%	1/10W
R780	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R3519	1-216-833-11	METAL CHIP	10K	5%	1/10W
R782	1-218-847-11	METAL CHIP	1K	0.50%	1/10W	R3524	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R783	1-216-835-11	METAL CHIP	15K	5%	1/10W	R3525	1-216-821-11	METAL CHIP	1K	5%	1/10W
R784	1-218-833-11	METAL CHIP	270	0.50%	1/10W	R3527	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R785	1-218-855-11	METAL CHIP	2.2K	0.50%	1/10W	R3528	1-216-833-11	METAL CHIP	10K	5%	1/10W
R786	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R3529	1-216-833-11	METAL CHIP	10K	5%	1/10W
R787	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R3530	1-218-865-11	METAL CHIP	5.6K		1/10W
R788	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3532	1-216-864-11	SHORT CHIP		2.0070	
R789	1-216-864-11	SHORT CHIP		570	.,	R3533	1-218-869-11	METAL CHIP	8.2K	0.50%	1/10W
R794	1-216-864-11	SHORT CHIP				R3534	1-218-720-11	METAL CHIP	15K	0.50%	1/10W
R851	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3535	1-218-865-11	METAL CHIP	5.6K		1/10W
R852	1-218-887-11	METAL CHIP	47K		1/10W	R3536	1-218-869-11	METAL CHIP	8.2K		1/10W
R860	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3537	1-216-855-11	METAL CHIP	680K	5%	1/10W
10001	1-210-033-11	ME IAL CHIP	IUK	3%	1/1000	K3331	1-210-000-11	IVIE LAL CHIP	DQUIV	5%	1/1000





REF. NO.	PART NO.	DESCRIPTION	VALU	ES		REF. NO.	PART NO.	DESCRIPTION	VALUE	S	
R3539	1-216-864-11	SHORT CHIP					CRYSTAL				
R3541	1-216-830-11	METAL CHIP	5.6K	5%	1/10W						
R3542	1-216-833-11	METAL CHIP	10K	5%	1/10W	X001	1-795-006-21	VIBRATOR, CRYSTAL			
R3543	1-216-815-11	METAL CHIP	330	5%	1/10W	X301	1-781-377-21	VIBRATOR, CRYSTAL			
R3550	1-216-817-11	METAL CHIP	470	5%	1/10W						
						V					
R3551	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
R3553	1-216-813-11	METAL CHIP	220	5%	1/10W	*	A-1057-460-A	V (VAR) BOARD, MO	DUNTED		
R3554	1-216-827-11	METAL CHIP	3.3K	5%	1/10W		(KV-27FS320 ON				
R3555	1-216-833-11	METAL CHIP	10K	5%	1/10W	,		V (VAR) BOARD, MO	DUNTED		
R3559	1-216-837-11	METAL CHIP	22K	5%	1/10W		(ALL EXCEPT K		, G <u></u>		
R3580	1-216-837-11	METAL CHIP	22K	5%	1/10W		4 000 054 44	000514 (440)(40)			
R3599	1-216-837-11	METAL CHIP	22K	5%	1/10W		4-382-854-11	SCREW (M3X10), P, SV	V (+)		
R3900	1-216-809-11	METAL CHIP	100	5%	1/10W						
		4FS120, 36FS120, 38FS12			.,		<u>CAPACITOR</u>				
R3901	1-216-809-11	METAL CHIP	100	5%	1/10W	C802	1-126-964-11	ELECT	10µF	20%	50V
	(KV-32FS120, 34	4FS120, 36FS120, 38FS12	0 L. NORT	H ONLY)		C803	1-137-378-11	MYLAR	0.22µF	5%	50V
						C804	1-137-378-11	MYLAR	0.22µF	5%	50V
R3902	1-216-809-11	METAL CHIP	100	5%	1/10W	C805	1-131-985-21	FILM	0.033µF	5%	250V
	(KV-32FS120, 3-	4FS120, 36FS120, 38FS12	0 L. NORT	H ONLY)		C808	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
R3903	1-218-285-11	METAL CHIP	75	5%	1/10W						
	(KV-27FS320, 3	2FS320, 36FS320 ONLY)				C809	1-128-934-91	CERAMIC CHIP	0.33µF	20%	10V
R3904	1-216-813-11	METAL CHIP	220	5%	1/10W	C810	1-130-495-00	MYLAR	0.1µF	5%	50V
	(KV-27FS320, 3	2FS320, 36FS320 ONLY)				C811	1-129-725-00	FILM	0.082µF	5%	400V
		•				C812	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
R3905	1-216-813-11	METAL CHIP	220	5%	1/10W	C813	1-126-933-11	ELECT	100µF	20%	16V
	(KV-27FS320, 3	2FS320, 36FS320 ONLY)									
R3906	1-218-285-11	METAL CHIP	75	5%	1/10W	C821	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	(KV-27FS320, 32	2FS320, 36FS320 ONLY)				C823	1-130-967-00	FILM	0.0027µF	5%	50V
R3907	1-216-813-11	METAL CHIP	220	5%	1/10W	C824	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
	(KV-27FS320, 3	2FS320, 36FS320 ONLY)				C826	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
						C862	1-126-964-11	ELECT	10μF	20%	50V
R3908	1-218-285-11	METAL CHIP	75	5%	1/10W				·		
	(KV-27FS320, 3	2FS320, 36FS320 ONLY)				C901	1-107-667-11	ELECT	2.2µF	20%	400V
R3910	1-216-822-11	METAL CHIP	1.2K	5%	1/10W	C902	1-107-364-11	MYLAR	0.01µF	10%	200V
R3990	1-216-809-11	METAL CHIP	100	5%	1/10W	C903	1-126-935-11	ELECT	470µF	20%	16V
R3997	1-216-809-11	METAL CHIP	100	5%	1/10W	C904	1-130-471-00	MYLAR	0.001µF	5%	50V
	(KV-27FS320, 3	2FS320, 36FS320 ONLY)				C905	1-107-364-11	MYLAR	0.01µF	10%	200V
R3998	1-216-809-11	METAL CHIP	100	5%	1/10W	C906	1 120 474 00	MYLAR	0.001µF	5%	50V
110330		2FS320, 36FS320 ONLY)	100	J /0	1/1000		1-130-471-00				
R3999	1-216-809-11	METAL CHIP	100	5%	1/10W	C907	1-107-963-11	ELECT	33µF	20%	250V
17333		2FS320, 36FS320 ONLY)	100	370	1/1000	C908	1-126-935-11	ELECT	470µF	20%	16V
R6001	•	METAL CHIP	10K	5%	1/10W	C909	1-104-999-11	MYLAR	0.1µF	5%	200V
1,000	1-216-833-11	INIL IAL OI IIF	IUN	J /0	1/ 1044	C910	1-104-999-11	MYLAR	0.1µF	5%	200V
R6002	1-216-833-11	METAL CHIP	10K	5%	1/10W	C911	1-126-933-11	ELECT	100µF	20%	16V
R6003	1-216-833-11	METAL CHIP	10K	5%	1/10W	C912	1-126-933-11	ELECT	100µF	20%	16V
R6004	1-216-821-11	METAL CHIP	1K	5%	1/10W	C913	1-102-074-00	CERAMIC	0.001µF	10%	50V
						C914	1-130-491-00	MYLAR	0.047µF	5%	50V
						C930	1-104-655-91	ELECT	470µF	20%	6.3V
						1					



C9:	931											
04		1-104-655-91	ELECT	470µF	20%	6.3V		CHIP CONDUCT	<u>'OR</u>			
UT	815	1-129-718-00	FILM	0.022µF	5%	630V						
	816	1-102-244-00	CERAMIC	220pF	10%	500V	JR802	1-216-864-11	SHORT CHIP			
	817	1-129-709-91	FILM	0.0039µF		630V	JR803	1-216-864-11	SHORT CHIP			
		(KV-27FS320 ON										
		(/					<u>COIL</u>				
C18	817	1-129-928-00	FILM	0.0027µF	5%	630V	L801	1-406-989-21	INDUCTOR	10MH		
		(ALL EXCEPT KV					L802			10MH		
C1:	818	1-102-002-00	CERAMIC	680pF	10%	500V		1-419-633-11	INDUCTOR			
0	010	(KV-27FS320 ON		осорі	1070	0001	L803	1-412-529-81	INDUCTOR	22µH		
C1:	818	1-164-645-11	CERAMIC	1000pF	10%	500V	L901	1-410-473-11	INDUCTOR	18µH		
011	010	(ALL EXCEPT KV		тооорг	1070	0001	L1805	1-406-677-11	INDUCTOR	10MH		
C18	819	1-102-244-00	CERAMIC	220pF	10%	500V		TRANSISTOR				
		(ALL EXCEPT KV	,				0005	0.550.400.04	TDANGIOTOD	I/TD704		
	820	1-109-954-11	ELECT	0.47µF	20%	160V	Q805	6-550-106-01	TRANSISTOR	KTB764		
C2	2801	1-128-578-11	ELECT	1µF	20%	100V	Q807	8-729-931-45	TRANSISTOR	IRF614		
							Q808	6-550-106-01	TRANSISTOR	KTB764		
		<u>CONNECTOR</u>					Q812	8-729-026-39	TRANSISTOR	2SA933A		
* CN	N901	1-564-512-11	PLUG, CONNECTOR		9P		Q901	8-729-053-87	TRANSISTOR	KTC4370)A	
	N901 N902	1-770-723-11	CONNECTOR, BOARD	TO BOARD								
	N1802	1-785-879-11	CONNECTOR, ONE TO		OI		Q902	6-550-247-01	TRANSISTOR	KTA1659		
CIV	N1002	1-700-079-11	CONNECTOR, ONE TO	0011			Q903	8-729-422-27	TRANSISTOR	2SD601A		
		DIODE					Q904	8-729-422-27	TRANSISTOR	2SD601A		
		DIODE					Q905	8-729-424-02	TRANSISTOR	2SB709A		
D8	304	8-719-074-25	DIODE	PG104R			Q906	8-729-120-28	TRANSISTOR	2SC1623	-L5L6	
D8		8-719-991-33	DIODE	1SS133T-	77							
D8		8-719-991-33	DIODE	1SS133T-			Q907	8-729-120-28	TRANSISTOR	2SC1623		
D8		8-719-210-21	DIODE	11EQS04			Q908	8-729-424-02	TRANSISTOR	2SB709A		
D8		8-719-991-33	DIODE	1SS133T-	77		Q1810	8-729-043-95	TRANSISTOR	2SC3840	. ,	
							Q2801	8-729-422-27	TRANSISTOR	2SD601A		
D8	313	8-719-991-33	DIODE	1SS133T-	77		Q2802	8-729-424-02	TRANSISTOR	2SB709A	-QRS-TX	
D9		8-719-924-11	DIODE	MTZJ-T-7								
D9		8-719-924-11	DIODE	MTZJ-T-7			Q2803	8-729-424-02	TRANSISTOR	2SB709A	-QRS-TX	
D9		8-719-991-33	DIODE	1SS133T-			Q2804	8-729-424-02	TRANSISTOR	2SB709A	-QRS-TX	
D9		8-719-404-50	DIODE	MA111-TX								
55	700	0 7 10 404 00	DIODE	WIZTET 17	•			RESISTOR				
D9	906	8-719-404-50	DIODE	MA111-TX			R809	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
D9	907	8-719-404-50	DIODE	MA111-TX				(KV-27FS320 Of				
D9	808	8-719-404-50	DIODE	MA111-TX			R809	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
D18	809	8-719-110-41	DIODE	RD15ESB	2			(ALL EXCEPT K	-	V.=. ·	0,0	.,
D1	810	8-719-970-87	DIODE	ERA38-06	i		R811	1-249-393-11	CARBON	10	5%	1/4W
D18	811	8-719-970-87	DIODE	ERA38-06	i		R814	1-215-862-11	METAL OXIDE	68	5%	1W
D18	812	8-719-081-93	DIODE	1N4937/2	3		1.011	(ALL EXCEPT K		00	0 / 0	
D2	2801	8-719-109-89	DIODE	RD5.6ESE			R815	1-215-862-11	METAL OXIDE	68	5%	1W
	2802	8-719-991-33	DIODE	1SS133T-			R817	1-218-879-11	METAL CHIP	22K	0.50%	
							1.017	(KV-27FS320 Of		221\	0.00/0	1/ 1000
		<u>IC</u>					D0.47	4 040 077 44	METAL CLUB	4017	0.500	4/4014
IC8	801	6-701-598-01	IC	UPC5023	CS-184		R817	1-218-877-11 (ALL EXCEPT K	METAL CHIP V-27FS320)	18K	0.50%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALU	ES		REF. NO.	PART NO.	DESCRIPTION	VALUE	S	
R818	1-216-809-11	METAL CHIP	100	5%	1/10W	R890	1-218-891-11	METAL CHIP	68K	0.50%	1/10W
R819	1-216-841-11	METAL CHIP	47K	5%	1/10W		(KV-27FS320 Of	NLY)			
R820	1-216-839-11	METAL CHIP	33K	5%	1/10W	R890	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
	(KV-27FS320 Of						(ALL EXCEPT K				
R820	1-216-837-11	METAL CHIP	22K	5%	1/10W	R893	1-216-839-11	METAL CHIP	33K	5%	1/10W
	(ALL EXCEPT K			0,0	.,				••••	0,0	.,
	(/ == =/ = / - / - / - / - / - / - / - /					R901	1-249-405-11	CARBON	100	5%	1/4W
R821	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R902	1-249-385-11	CARBON	2.2	5%	1/4W
11021	(KV-27FS320 OI	-	0.010	070	1,1011	R903	1-249-414-11	CARBON	560	5%	1/4W
R821	1-216-832-11	METAL CHIP	8.2K	5%	1/10W	R904	1-249-432-11	CARBON	18K	5%	1/4W
11021	(ALL EXCEPT K		0.210	370	1/10//	R905	1-249-421-11	CARBON	2.2K	5%	1/4W
R822	1-216-841-11	METAL CHIP	47K	5%	1/10W	11303	1-2-1321-11	OARDON	2.21	J /0	1/4 * *
11022	1-210-041-11	WIL TAL CITII	4/11	J /0	1/1000	R906	1-249-432-11	CARBON	18K	5%	1/4W
D024	1 210 005 11	METAL CLUD	1001/	0.500/	1/10///	R907			2.2		1/4VV 1/4W
R824	1-218-895-11	METAL CHIP	100K		1/10W		1-249-385-11	CARBON		5% 5%	
R825	1-216-845-11	METAL CHIP	100K	5%	1/10W	R908	1-249-414-11	CARBON	560	5%	1/4W
R826	1-249-421-11	CARBON	2.2K	5%	1/4W	R909	1-260-316-51	CARBON	100	5%	1/2W
R827	1-218-863-11	METAL CHIP	4.7K		1/10W	R910	1-215-915-11	METAL OXIDE	470	5%	3W
R828	1-218-883-11	METAL CHIP	33K	0.50%	1/10W						
						R911	1-215-405-00	METAL	220	1%	1/4W
R829	1-216-853-11	METAL CHIP	470K	5%	1/10W	R912	1-249-407-11	CARBON	150	5%	1/4W
R833	1-218-865-11	METAL CHIP	5.6K	0.50%	1/10W	R913	1-215-391-00	METAL	56	1%	1/4W
	(KV-27FS320 Of	•				R914	1-249-416-11	CARBON	820	5%	1/4W
R833	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W	R915	1-249-425-11	CARBON	4.7K	5%	1/4W
	(ALL EXCEPT K	V-27FS320)									
						R917	1-249-425-11	CARBON	4.7K	5%	1/4W
R834	1-218-859-11	METAL CHIP	3.3K	0.50%	1/10W	R918	1-249-401-11	CARBON	47	5%	1/4W
	(KV-27FS320 Of	NLY)				R919	1-249-401-11	CARBON	47	5%	1/4W
R834	1-218-855-11	METAL CHIP	2.2K	0.50%	1/10W	R921	1-249-429-11	CARBON	10K	5%	1/4W
	(ALL EXCEPT K	V-27FS320)				R922	1-249-397-11	CARBON	22	5%	1/4W
R837	1-218-869-11	METAL CHIP	8.2K	0.50%	1/10W						
	(KV-27FS320 Of	NLY)				R923	1-249-401-11	CARBON	47	5%	1/4W
						R930	1-216-864-11	SHORT CHIP			
R840	1-218-855-11	METAL CHIP	2.2K	0.50%	1/10W	R931	1-249-421-11	CARBON	2.2K	5%	1/4W
R841	1-218-863-11	METAL CHIP	4.7K	0.50%	1/10W	R932	1-218-851-11	METAL CHIP	1.5K	0.50%	1/10W
	(KV-27FS320 Of	NLY)				R933	1-216-864-11	SHORT CHIP			
R841	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W						
	(ALL EXCEPT K				.,	R935	1-249-405-11	CARBON	100	5%	1/4W
	(R938	1-216-864-11	SHORT CHIP			.,
R842	1-218-855-11	METAL CHIP	2.2K	0.50%	1/10W	R1845	1-249-441-11	CARBON	100K	5%	1/4W
R855	1-218-871-11	METAL CHIP	10K		1/10W	R1846	1-249-441-11	CARBON	100K	5%	1/4W
R856	1-218-861-11	METAL CHIP	3.9K		1/10W	R1847	1-249-441-11	CARBON	100K	5%	1/4W
R857	1-218-877-11	METAL CHIP	18K		1/10W	KIOTI	1 243 441 11	O/INDOIN	10010	3 /0	1/4**
11007	(KV-27FS320 Of		TOIX	0.5070	1/1044	R1848	1-215-894-11	METAL OXIDE	2.2K	5%	2W
	(IXV-271 3320 OI	NLI)				R1849	1-243-617-71	METAL OXIDE	8.2K	5%	3W
D057	1 210 060 11	METAL CHID	0 21/	0.500/	1/10\\\	K1043			0.21	J /0	SVV
R857	1-218-869-11	METAL CHIP	8.2K	0.00%	1/10W	D4040	(KV-27FS320 OI 1-243-610-71	,	2 21/	E0/	2///
Dooo	(ALL EXCEPT K	,	4017	0.500/	4/40\\	R1849		METAL OXIDE	2.2K	5%	3W
R860	1-218-871-11	METAL CHIP	10K		1/10W		(ALL EXCEPT K	v-21F332U)			
R864	1-218-823-11	METAL CHIP	100		1/10W	D		METAL COMP	0.611	=0/	0147
R866	1-249-438-11	CARBON	56K	5%	1/4W	R1850	1-243-617-71	METAL OXIDE	8.2K	5%	3W
						_	(KV-27FS320 Of	,			
R870	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R1850	1-243-610-71	METAL OXIDE	2.2K	5%	3W
R876	1-216-821-11	METAL CHIP	1K	5%	1/10W		(ALL EXCEPT K	V-27FS320)			

NOTE: Les composants identifies per un trame et une marque 🛆 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



	REF. NO.	PART NO.	DESCRIPTION	VALUE	s		REF. NO.	PART NO.	DESCRIPTION	VALU	JES	
	R1851	1-215-922-11	METAL OXIDE	6.8K	5%	3W		a				
	R1852	1-215-922-11	METAL OXIDE	6.8K	5%	3W	⊔ ⊢ № Л					
	R2800	1-216-837-11	METAL CHIP	22K	5%	1/10W						
	R2801	1-216-841-11	METAL CHIP	47K	5%	1/10W		* A-1056-114-A	HM BOARD, MOU	NTED		
	R2802	1-216-833-11	METAL CHIP	10K	5%	1/10W		(KV-27FS320, 32	FS320, 36FS320 ONLY)			
	R2803	1-216-837-11	METAL CHIP	22K	5%	1/10W	Due to the co	mplexity of this	board, performing o	omponent	level fi	eld repairs
	R2804	1-216-833-11	METAL CHIP	10K	5%	1/10W	is not recomr	nended. If service	e is required, comp	lete board	replace	ment is
	R2805	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	the preferred	repair method. I	Data is provided for	reference (only.	
	R2807	1-216-827-11	METAL CHIP	3.3K	5%	1/10W						
	R2808	1-216-833-11	METAL CHIP	10K	5%	1/10W		CAPACITOR				
		TD 4 NOT O D 14 ED					C1301	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
		TRANSFORMER					C1302	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
<u>^</u>	T504	1-424-584-31	TRANSFORMER, FER	RITE (DFT)			C1303	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
				·= (=· /)			C1307	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
							C1308	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
	N						C1309	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
<u> </u>	,	A-1054-787-A	HN BOARD, MOUN	TED			C1311	1-124-779-00	ELECT CHIP	10µF	20%	16V
			FS320, 36FS320 ONLY)	ובט			C1315	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
		(177-271 0020, 021	0020, 001 0020 ONLT)				C1325	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
		4-382-854-11	SCREW (M3X10), P, S\	N (+)			C1327	1-124-779-00	ELECT CHIP	10μF	20%	16V
		CADACITOD					C1328	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
		<u>CAPACITOR</u>					C1329	1-124-779-00	ELECT CHIP	10µF	20%	16V
	C1601	1-126-939-11	ELECT	10000µF	20%	16V	C1330	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C1602	1-126-964-11	ELECT	10μF	20%	50V	C1331	1-124-779-00	ELECT CHIP	10µF	20%	16V
	C1603	1-126-964-11	ELECT	10μF	20%	50V	C1333	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
		CONNECTOR					C1334	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
		<u></u>					C1335	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
*	CN1601	1-564-506-11	PLUG, CONNECTOR	3P			C1336	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
*	CN1602	1-564-506-11	PLUG, CONNECTOR	3P			C1337	1-107-620-11	CERAMIC CHIP	0.1μ1 10μF	10%	16V
							C1339	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
		<u>IC</u>					01000	1 107 020 11	OLIV WING OTH	0.1μ1	1070	101
	IC1600	8-759-450-47	IC	BA05T			C1341	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
							C1342	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
		IC LINK					C1343	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
							C1344	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	PS1600	1-576-337-21	IC LINK	2.7A	50V		C1346	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
		RESISTOR					C1347	1-127-692-11	CERAMIC CHIP	10µF	10%	16V
							C1348	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
	R1600	1-205-997-31	CEMENTED	2.2	5%	10W	C1349	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
							C1350	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
							C1351	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
							04050	4 407 000 44		0.4.5	400/	401/

C1352

C1353

C1354

C1355

1-107-826-11

1-124-779-00

1-124-779-00

1-107-826-11

CERAMIC CHIP

ELECT CHIP

ELECT CHIP

CERAMIC CHIP

0.1µF

10µF

10µF

0.1µF

10%

20%

20%

10%

16V

16V

16V

16V



REF. NO.	PART NO.	DESCRIPTION	VALUES	3		REF. NO	PART NO.	DESCRIPTION	VALUES
C1356	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		CONNECTOR		
C1357	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	* CN1302			
C1358	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	CIVIOUZ	1-564-515-11	PLUG, CONNECTOR	12P
C1359	1-124-779-00	ELECT CHIP	10µF	20%	16V	CN1303	1-564-506-11	PLUG, CONNECTOR	3P
C1360	1-124-779-00	ELECT CHIP	10μF	20%	16V	CN1304	1-817-653-11	MEMORY STICK CON	NECTOR
C1361	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		DIODE		
C1362	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	D1206	0 740 000 76	DIODE	100000
C1363	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	D1306	8-719-800-76	DIODE	1SS226
C1364	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	D1307	8-719-800-76	DIODE	1SS226
C1365	1-124-779-00	ELECT CHIP	10µF	20%	16V	D1308	8-719-800-76	DIODE	1SS226
0.000			. • •	2070		D1309	6-500-182-01	DIODE	L1503CB/ID
C1366	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	D1310	8-719-083-58	DIODE	UDZSTE-173.9B
C1367	1-127-692-11	CERAMIC CHIP	10μF	10%	16V	5			
C1368	1-124-779-00	ELECT CHIP	10μF	20%	16V	D1311	8-719-800-76	DIODE	1SS226
C1369	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	D1312	8-719-914-43	DIODE	DAN202K
C1370	1-107-020-11	ELECT CHIP	0.1μ1 10μF	20%	16V	D1313	8-719-914-44	DIODE	DAP202K
C1370	1-124-779-00	ELECT ONIP	ΙυμΓ	20%	100	D1314	8-719-977-28	DIODE	DTZ10B
C1371	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		FERRITE BEAD		
C1373	1-162-920-11	CERAMIC CHIP	27pF	5%	50V	FD 4000		FEDRITE	0.11
C1374	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	FB1302	1-414-229-11	FERRITE	0μH
C1375	1-124-779-00	ELECT CHIP	10µF	20%	16V	FB1303	1-414-229-11	FERRITE	0μH
C1376	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	FB1304	1-414-229-11	FERRITE	0μΗ
						FB1305	1-414-229-11	FERRITE	0μΗ
C1377	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	FB1306	1-400-089-21	FERRITE	0μΗ
C1378	1-162-920-11	CERAMIC CHIP	27pF	5%	50V				
C1385	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	FB1307	1-414-229-11	FERRITE	0μΗ
C1386	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	FB1308	1-414-229-11	FERRITE	0μΗ
C1387	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	FB1309	1-414-229-11	FERRITE	0μΗ
						FB1310	1-414-229-11	FERRITE	0μΗ
C1392	1-162-974-11	CERAMIC CHIP	0.01µF		50V	FB1311	1-414-229-11	FERRITE	0μΗ
C1393	1-164-346-11	CERAMIC CHIP	1µF		16V				
C1394	1-162-965-11	CERAMIC CHIP	0.0015µF	10%	50V	FB1312	1-414-921-11	FERRITE	0μΗ
C1395	1-162-965-11	CERAMIC CHIP	0.0015µF	10%	50V	FB1313	1-414-229-11	FERRITE	0μΗ
C1396	1-124-779-00	ELECT CHIP	10μF	20%	16V	FB1315	1-400-089-21	FERRITE	0μΗ
C1397	1-162-965-11	CERAMIC CHIP	0.0015µF	10%	50V		<u>FILTER</u>		
C1398	1-124-779-00	ELECT CHIP	10µF	20%	16V	P 1 1227		FEDRITE	0.11
C1399	1-162-965-11	CERAMIC CHIP	0.0015µF	10%	50V	FL1306	1-234-126-21	FERRITE	0μH
C1400	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	FL1307	1-234-126-21	FERRITE	0μH
C1401	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	FL1309	1-234-126-21	FERRITE	0μΗ
C1402	1-124-778-00	ELECT CHIP	22µF	20%	6.3V		<u>IC</u>		
C1404	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	104000	6 704 040 04	IC CC4225 VCZD	
C1480	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	IC1302	6-704-819-01	IC CS4335-KSZR	
C1481	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	IC1303	8-749-015-18	IC PQ07VZ012ZP	
C1482	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	IC1304	8-749-015-18	IC PQ07VZ012ZP	N E4 DAOL E5
01704	1 107-020-11	OLIV WIND OF III	υ. ιμι	10/0	101	IC1308	6-804-442-01	IC MBM29LV160BE90T	N-E1-RA6F-FK
	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	IC1310	6-706-283-01	IC ES6425FF	_
C1/183	1-101-020-11	OLIVAIVIIG GLIIF	υ. τμπ			IC1311	6-706-452-01	IC IS42S16400B-7TL-T	K
C1483 C1484	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V				



REF. NO.	PART NO.	DESCRIPTION	VALU	ES		REF. NO.	PART NO.	DESCRIPTION	VAL	JES	
	COIL					R1389	1-216-803-11	METAL CHIP	33	5%	1/10W
1.4004	1 100 510 01	INDUIGTOR	4.11			R1391	1-216-797-11	METAL CHIP	10	5%	1/10W
L1301	1-469-549-21	INDUCTOR	1μH			R1397	1-216-813-11	METAL CHIP	220	5%	1/10W
L1302	1-469-549-21	INDUCTOR	1μH			R1398	1-216-864-11	SHORT CHIP			
L1303	1-469-549-21	INDUCTOR	1µH			R1399	1-216-864-11	SHORT CHIP			
L1304	1-469-549-21	INDUCTOR	1µH								
	TRANSISTOR					R1400	1-216-864-11	SHORT CHIP			
	MANOIOTON					R1401	1-216-864-11	SHORT CHIP			
Q1301	8-729-424-02	TRANSISTOR	2SB709	A-QRS-TX		R1403	1-216-803-11	METAL CHIP	33	5%	1/10W
Q1302	8-729-422-27	TRANSISTOR	2SD601	A-Q		R1404	1-216-803-11	METAL CHIP	33	5%	1/10W
Q1303	8-729-424-02	TRANSISTOR	2SB709	A-QRS-TX	(R1408	1-216-803-11	METAL CHIP	33	5%	1/10W
Q1304	8-729-028-28	TRANSISTOR	2SK203	6(TE85L)		_					
Q1305	8-729-028-28	TRANSISTOR	2SK203	6(TE85L)		R1409	1-216-803-11	METAL CHIP	33	5%	1/10W
						R1410	1-216-803-11	METAL CHIP	33	5%	1/10W
	RESISTOR					R1411	1-216-803-11	METAL CHIP	33	5%	1/10W
						R1415	1-216-813-11	METAL CHIP	220	5%	1/10W
R1307	1-218-285-11	METAL CHIP	75	5%	1/10W	R1420	1-216-803-11	METAL CHIP	33	5%	1/10W
R1308	1-218-285-11	METAL CHIP	75	5%	1/10W						
R1309	1-218-285-11	METAL CHIP	75	5%	1/10W	R1421	1-216-803-11	METAL CHIP	33	5%	1/10W
R1310	1-218-659-11	METAL CHIP	43		1/10W	R1422	1-216-803-11	METAL CHIP	33	5%	1/10W
R1314	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R1423	1-216-803-11	METAL CHIP	33	5%	1/10W
						R1424	1-216-803-11	METAL CHIP	33	5%	1/10W
R1345	1-216-864-11	SHORT CHIP				R1426	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1348	1-216-864-11	SHORT CHIP									
R1351	1-216-864-11	SHORT CHIP				R1433	1-216-803-11	METAL CHIP	33	5%	1/10W
R1352	1-218-682-11	METAL CHIP	390	0.50%	1/10W	R1434	1-216-803-11	METAL CHIP	33	5%	1/10W
R1355	1-216-803-11	METAL CHIP	33	5%	1/10W	R1435	1-216-818-11	METAL CHIP	560	5%	1/10W
						R1436	1-216-818-11	METAL CHIP	560	5%	1/10W
R1356	1-218-692-11	METAL CHIP	1K	0.50%	1/10W	R1437	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1357	1-216-803-11	METAL CHIP	33	5%	1/10W						
R1358	1-216-864-11	SHORT CHIP				R1438	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1359	1-218-672-11	METAL CHIP	150	0.50%	1/10W	R1439	1-216-850-11	METAL CHIP	270K	5%	1/10W
R1360	1-218-692-11	METAL CHIP	1K	0.50%	1/10W	R1440	1-216-850-11	METAL CHIP	270K	5%	1/10W
						R1441	1-216-801-11	METAL CHIP	22	5%	1/10W
R1363	1-216-803-11	METAL CHIP	33	5%	1/10W	R1442	1-216-801-11	METAL CHIP	22	5%	1/10W
R1366	1-216-864-11	SHORT CHIP									
R1367	1-218-686-11	METAL CHIP	560	0.50%	1/10W	R1443	1-216-801-11	METAL CHIP	22	5%	1/10W
R1369	1-216-803-11	METAL CHIP	33	5%	1/10W	R1444	1-218-692-11	METAL CHIP	1K		1/10W
R1371	1-216-803-11	METAL CHIP	33	5%	1/10W	R1445	1-216-821-11	METAL CHIP	1K	5%	1/10W
					.,	R1446	1-216-809-11	METAL CHIP	100	5%	1/10W
R1372	1-218-696-11	METAL CHIP	1.5K	0.50%	1/10W	R1447	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1374	1-216-803-11	METAL CHIP	33	5%	1/10W	101111	1210 000 11		1011	070	.,
R1375	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R1448	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1376	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R1449	1-216-817-11	METAL CHIP	470	5%	1/10W
R1370	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R1449 R1450	1-216-841-11	METAL CHIP	470 47K	5% 5%	1/10W
1/10/3	1-7 10-072-11	WIL TAL OF IIF	71.F	J /0	1/1000						1/10W
D1202	1 216 920 11	METAL CLID	1 7V	E0/	1/10W	R1451	1-216-841-11	METAL CHIP	47K	5%	
R1382	1-216-829-11	METAL CHIP	4.7K	5%		R1453	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1383	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	D4.45.4	1 010 000 11	METAL CLUB	401/	F0/	4/4014
R1385	1-216-845-11	METAL CHIP	100K	5% 5%	1/10W	R1454	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1386	1-216-813-11	METAL CHIP	220	5% 5%	1/10W	R1455	1-216-809-11	METAL CHIP	100	5%	1/10W
R1387	1-216-803-11	METAL CHIP	33	5%	1/10W	R1456	1-216-809-11	METAL CHIP	100	5%	1/10W
						R1457	1-216-864-11	SHORT CHIP			



	REF. NO.	PART NO.	DESCRIPTION	V	ALUES			REF. NO.	PART NO.	DESCRIPTION	VALU	ES	
1	R1458	1-216-864-11	SHORT CHIP						<u>IC</u>				
1	R1459	1-216-864-11	SHORT CHIP					100004		10/010	00\/00=		
1	R1460	1-216-864-11	SHORT CHIP					IC3001	8-742-211-20	HYB IC	SBX3071	-/1	
ı	R1461	1-216-803-11	METAL CHIP	33	5%	1/10W			RESISTOR				
		RESISTOR BRIDG	<u>6E</u>					R3001	1-249-417-11	CARBON	1K	5%	1/4W
	RB1404	1-233-574-11	RES, CHIP NETWORK	10	(3216)			R3014	1-247-807-31	CARBON	100	5%	1/4W
	RB1405	1-233-574-11	RES, CHIP NETWORK		(3216)								
	RB1406	1-233-574-11	RES, CHIP NETWORK		(3216)				<u>SWITCH</u>				
	RB1407	1-233-574-11	RES, CHIP NETWORK		(3216)			00000	4 700 000 40	014/17011 74.07/15			
	RB1408	1-233-574-11	RES, CHIP NETWORK		(3216)			S3006	1-786-338-12	SWITCH, TACTILE			
!	ND1400	1-255-574-11	KES, CHIF NETWORK	10	(3210)		<u> _</u>						
	RB1409	1-233-574-11	RES, CHIP NETWORK		(3216)		╢	4 L JI					
	RB1410	1-233-574-11	RES, CHIP NETWORK		(3216)		╽╚	10					
	RB1411	1-234-524-21	RES, CHIP NETWORK		(3216)			*		HU BOARD, MOUN	TED		
	RB1412	1-234-524-21	RES, CHIP NETWORK		(3216)				(KV-27FS320/32F	S320/36FS320 ONLY)			
ļ	RB1413	1-234-524-21	RES, CHIP NETWORK	33	(3216)				CAPACITOR				
	RB1414	1-234-524-21	RES, CHIP NETWORK	33	(3216)				CAFACITOR				
	RB1415	1-234-524-21	RES, CHIP NETWORK		(3216)			C2234	1-137-194-81	FILM	0.47µF	5%	50V
	RB1416	1-234-524-21	RES, CHIP NETWORK		(3216)			C2235	1-137-194-81	FILM	0.47µF	5%	50V
	RB1417	1-234-524-21	RES, CHIP NETWORK		(3216)								
	RB1418	1-234-524-21	RES, CHIP NETWORK		(3216)				CONNECTOR				
			,		(==:=)		*	CN1001	1-564-509-11	PLUG, CONNECTOR	6P		
1	RB1419	1-234-524-21	RES, CHIP NETWORK	33	(3216)			CIVIOUI	1-304-303-11	T LOG, CONNECTOR	UI		
1	RB1420	1-234-524-21	RES, CHIP NETWORK	33	(3216)				DIODE				
l	RB1421	1-234-524-21	RES, CHIP NETWORK	33	(3216)				DIODE				
								D301	8-719-108-12	DIODE	RD9.1EV	V	
		CRYSTAL						D2235	8-719-108-12	DIODE	RD9.1EV	V	
,	X1301	1-795-502-21	VIBRATOR, CRYSTAL					D2236	8-719-108-12	DIODE	RD9.1EV	V	
,	X1301	1-733-302-21	VIDICATOR, ORTOTAL					D2238	8-719-109-93	DIODE	RD6.2ES	B2	
-								D2239	8-719-109-93	DIODE	RD6.2ES	B2	
⊩	\mathbf{R}							D2240	8-719-929-15	DIODE	HZS9.1N	B2	
	•••	A 4445 070 A	UD DOADD MOUNT					D2241	8-719-929-15	DIODE	HZS9.1N	B2	
	•		HR BOARD, MOUNT S320/36FS320 ONLY)	ΕD									
			,						<u>JACK</u>				
		CAPACITOR						J2231	1-794-048-11	JACK, PIN	3P		
(C3001	1-104-665-11	ELECT	100	μF 20%	25V			RESISTOR				
		CONNECTOR						R1001	1-249-427-11	CARBON	6.8K	5%	1/4W
								R1001	1-249-421-11	CARBON	0.or 2.2K	5% 5%	1/4VV 1/4W
*	CN3001	1-564-521-11	PLUG, CONNECTOR	6P				R1002	1-249-421-11	CARBON	1.5K	5%	1/4VV 1/4W
								R2008	1-249-427-11	CARBON	6.8K	5%	1/4W
		DIODE						R2009	1-249-427-11	CARBON	2.2K	5%	1/4VV 1/4W
1	D3002	8-719-057-09	DIODE	LNJ	801LPDJA			112000	1 4TV T41-11	O/INDON	L.LI\	J /0	1/ TVV
	D3004	8-719-070-57	DIODE		25.6B-115			R2010	1-249-416-11	CARBON	820	5%	1/4W
			-					R2011	1-249-415-11	CARBON	680	5%	1/4W
								R2235	1-249-409-11	CARBON	220	5%	1/4W
								R2236	1-249-441-11	CARBON	100K	5%	1/4W



REF. NO.	PART NO.	DESCRIPTION	VALU	ES			REF. NO.	PART NO.	DESCRIPTION	VALU	JES	
R2237	1-249-409-11	CARBON	220	5%	1/4W			RESISTOR				
R2238	1-249-441-11	CARBON	100K	5%	1/4W	F	R1004	1-249-417-11	CARBON	1K	5%	1/4W
R2240	1-247-804-11	CARBON	75	5%	1/4W	F	R1007	1-247-807-31	CARBON	100	5%	1/4W
1\2240	1-247-004-11	CANDON	75	J /0	1/4 4 4	F	R1008	1-249-427-11	CARBON	6.8K	5%	1/4W
	CWITCH					F	R1009	1-249-421-11	CARBON	2.2K	5%	1/4W
	<u>SWITCH</u>					F	R1010	1-249-416-11	CARBON	820	5%	1/4W
S1007	1-762-816-11	SWITCH, TACTILE										
S1008	1-762-816-11	SWITCH, TACTILE				F	R1011	1-249-415-11	CARBON	680	5%	1/4W
S2001	1-692-431-21	SWITCH, TACTILE				F	R1201	1-249-419-11	CARBON	1.5K	5%	1/4W
S2002	1-692-431-21	SWITCH, TACTILE				F	R1202	1-249-421-11	CARBON	2.2K	5%	1/4W
S2003	1-692-431-21	SWITCH, TACTILE				F	R1203	1-249-427-11	CARBON	6.8K	5%	1/4W
						F	R1234	1-247-804-11	CARBON	75	5%	1/4W
S2004	1-692-431-21	SWITCH, TACTILE										
S2005	1-692-431-21	SWITCH, TACTILE				F	R1235	1-249-409-11	CARBON	220	5%	1/4W
						F	R1236	1-249-441-11	CARBON	100K	5%	1/4W
						F	R1237	1-249-409-11	CARBON	220	5%	1/4W
HI)							R1238	1-249-441-11	CARBON	100K	5%	1/4W
	* A-1415-873-A	HD BOARD, MOUN	NTED (SPA	ACER B	OARD)			OWITOU				
	(KV-27FS320/32F	S320/36FS320 ONLY)						SWITCH				
							S1001	1-692-431-21	SWITCH, TACTILE			
							S1002	1-692-431-21	SWITCH, TACTILE			
HS							S1003	1-692-431-21	SWITCH, TACTILE			
							S1004	1-692-431-21	SWITCH, TACTILE			
•		HS BOARD, MOUNTS120/36FS120/38FS120				5	S1005	1-692-431-21	SWITCH, TACTILE			
	(,				S1006	1-692-431-21	SWITCH, TACTILE			
	CAPACITOR						S1007	1-762-816-11	SWITCH, TACTILE			
							S1007 S1008	1-762-816-11	SWITCH, TACTILE			
C1001	1-104-665-11	ELECT	100µF	20%	25V				• · · · · · · · · · · · · · · · · · · ·			
C1234	1-126-960-11	ELECT	1µF	20%	50V			ACCESSORIES	AND PACKING			
C1235	1-126-960-11	ELECT	1µF	20%	50V							
	DIODE					*		4-041-259-05	BAG, PROTECTION			
	<u>DIODE</u>					*		(KV-27FS320 Of	•			
D1001	8-719-929-15	DIODE	HZS9.11	NB2		*		4-066-845-02	BAG, PROTECTION			
D1002	8-719-070-80	DIODE	LNK012	0022G		*		(KV-32FS120/34	,			
D1003	8-719-929-15	DIODE	HZS9.11					4-066-646-02	BAG, PROTECTION			
D1004	8-719-929-15	DIODE	HZS9.11					(KV-36FS120/38	FS120 ONLY)			
D1005	8-719-929-15	DIODE	HZS9.11			*		4 400 407 04	OADTON INDUSTRI			
	-					*		4-103-197-01	CARTON INDIVIDUAL			
D1233	8-719-108-12	DIODE	RD9.1E	W		*		(KV-32FS120 Of	•			
D1235	8-719-108-12	DIODE	RD9.1E			*		4-103-489-01	CARTON, HSC			
D1236	8-719-108-12	DIODE	RD9.1E			*		(KV-36FS320 OI	,			
						*		4-103-473-01	CARTON, INDIVIDUAL			
	<u>IC</u>					*		(KV-27FS320 Of	,			
								4-103-481-01	CARTON, INDIVIDUAL			
IC1001	8-742-212-20	HYB IC	SBX308	1-71		*		(KV-32FS320 OI 4-103-477-01	NLY) CARTON, INDIVIDUAL			
	<u>JACK</u>							(KV-34FS120 OI				
	<u>vuoit</u>					*		4-103-483-01	CARTON, INDIVIDUAL			
J1231	1-794-048-11	JACK, PIN	3P					(KV-36FS120 Of				

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO	D. PART NO.	DESCRIPTION	VALUES
*	4-103-485-01	CARTON, INDIVIDUAL	-	*	4-096-449-01	CUSHION, UPPER	
	(KV-38FS120 O	NLY)			(KV-27FS320 OI	NLY)	
				*	4-088-740-01	CUSHION, UPPER	
*	4-085-911-03	CUSHION, FRONT (UI	PPER)		(KV-32FS120/34	FS120 ONLY)	
	(KV-32FS320 O	NLY)					
*	4-087-953-01	CUSHION, FRONT (UI	PPER)		4-093-139-11	INSERT, DOOR BREA	KAGE (L)
	(KV-36FS120/38	BFS120 ONLY)			(KV-27FS320/32	FS320/36FS320 ONLY)	
*	4-086-352-02	CUSHION, FRONT (UI	PPER)				
	(KV-36FS320 O	NLY)			4-101-939-31	MANUAL, INSTRUCTION	ON
					(KV-27FS32/32F	S320/36FS320 CND ONL	Y)
*	4-088-742-01	CUSHION, LOWER			4-101-939-21	MANUAL, INSTRUCTION	ON
	(KV-32FS120/34	FS120 ONLY)			(KV-27FS320/32	FS320/36FS320 US & HA	WAII ONLY)
*	4-085-913-02	CUSHION, LOWER			4-101-940-31	MANUAL, INSTRUCTION	ON
	(KV-32FS320 O	NLY)			(KV-32FS120/36	FS120 CND ONLY)	
*	4-087-955-01	CUSHION, LOWER			4-101-940-21	MANUAL, INSTRUCTION	ON
	(KV-36FS120/38	BFS120 ONLY)			(KV-32FS120/36	FS120 US ONLY)	
*	4-086-354-03	CUSHION, LOWER			4-101-940-41	MANUAL, INSTRUCTION	ON
	(KV-36FS320 O	NLY)			(KV-34FS120/38	FS120 ONLY)	
*	4-088-741-01	CUSHION, REAR (UP	PER)		REMOTE COMI	MANDER	
	(KV-32FS120/34	FS120 ONLY)	,				
*	4-085-912-02	CUSHION, REAR (UP	PER)		1-478-707-11	REMOTE COMMANDE	
	(KV-32FS320 O	NLY)	·		4-978-977-11	BATTERY COVER (for	*
*	4-087-954-02	CUSHION, REAR (UP	PER)			FS120/36FS120/38FS120	,
	(KV-36FS120/38	BFS120 ONLY)	•		1-478-708-11	REMOTE COMMANDE	
*	4-086-353-03	CUSHION, REAR (UP	PER)		4-978-977-11	BATTERY COVER (for	RM-Y196)
	(KV-36FS320 O	,	,		(KV-27FS320/32	FS320/36FS320 ONLY)	
	,	,					

SERVICE MANUAL

In an effort to reduce the size of this pdf file the tiled schematics are not attached to this Service Manual. To receive a complete set of the tiled schematics for this manual please submit a request to Nita Wardlaw at nita.wardlaw@am.sony.com.